

DRAWING THE HEAD & HANDS





Drawing THE HEAD AND HANDS

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(Illustration pages are indicated by italics)

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A Short Chat with the Reader

How PORTUNATE it is for the human race that every man, woman, and child is tagged with an individual and identifiable face! If all faces were identical, like the labels on a brand of tomatoes. we would be living in a very mixed-up world. When we think of it, life is mainly a continuous flow of experiences and contacts with people, different people. Suppose for a moment that lunes, the egg man, was the exact counterpart of Smith, the banker; that the face across the table might be that of Mrs. Murphy, Mrs. Coldblatt, or Mrs. Trotsky-you couldn't be sure which. Suppose all the faces in the magazines and newspapers and on television were reduced to one male and one female type, what a dull thing life would bel Even if your face has not been your fortune, even if it is far from beautifel, still, nature really gave us all a pretty good break, for at least we are individuals and can each be thankful for having a face, good or bad, that is undeniably our own.

This individuality of faces can be an intensely interesting study for anyone, and especially for anyone with the slightest talent for drawing. Once we begin to comprehend some of the reasons for the differences, our study becomes allabsorbing. Through our faces, nature not only identifies us but tells the world a good deal more about each of us.

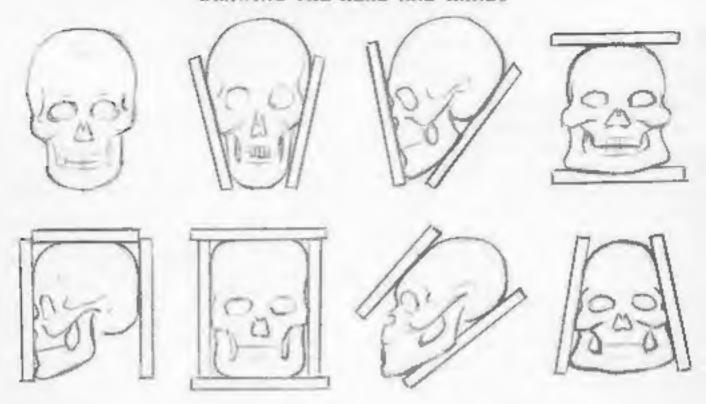
Our thoughts, our emotions and attitudes, even the kind of lives we live, register in our faces. The mobility of the flesh—that is, the power of expression—adds more than mere identity. Let us give more than casual attention to the endless procession of faces moving in and out of our consciousness. Setting aside the psychological and emotional phases of expression, we can express in simple language the basic technical reasons for the smile, the frown, and all the variations that we call facial expression. We say that a person can look guilty, ashamed,

frightened, content, angry, smug, confident, frustrated, and a host of other ways too numerous to tabulate. A few embedded muscles attached to the bones of the skull provide the mechanics for every expression, and these muscles and bones are not complicated or difficult to learn! What a wealth of interest lies within!

Let me say at the beginning that to draw a bead effectively is not a matter of "soul searching" or mind reading. It is primarily a matter of interpreting form correctly in its proportion, perspective, and lighting. All other qualities enter the drawing as a result of the way that form is interpreted. If the artist gets that right, the soul or character is revealed. As artists, we only see, analyze, and set down. A pair of eyes drawn constructively and in correct values will appear to be alive because of craftsmanship, not because of the artist's ability to read the sitter's soul.

The element that contributes most to the great variation of identities is the difference in the shapes of the skull itself. There are round heads, square heads, heads with wide and flaring jaws, elongated heads, narrow heads, heads with receding jaws. There are heads with high domes and foreheads, and those with low. Some faces are concave, and others convex. Noses and chins are prominent or receding. Eyes are large or small, set wide apart or close together. Ears are all kinds of shapes and sizes. There are lean faces and fat faces, big-boned and small-boned ones. There are long lips, wide lips, thin lips, full lips, protruding lips, and equal variety in the sizes and shapes of noses. You can see that, by cross multiplication of these varying factors, millions of different faces will be produced. Of course, by the law of averages certain combinations of factors are bound to reappear. For that reason people who are not related sometimes closely resemble each other. Every artist has

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had the experience of being told by someone that a head he has painted or drawn looks like that person or like an acquaintance or relative of the speaker.

For the artist's purpose, the simplest plan is first to think of the skull as being pliable and having taken a certain shape as a result of pressures-as if one squeezed a rubber ball into various shapes without changing its actual volume. Although skulls have a great variety of shapes, actual measurements tally very closely, which means that the volume is about the same and only the shape is different. Suppose we model a skull in soft clay, then, between boards, press it into various shapes. Thus out of the same volume we can make a narrow head, a wide head, flaring jaws, and all the other types. How heads got to be this way is not our problem, which is only to analyze and thus determine the type of skull in the particular head we wish to draw. Later, when you become more familiar with the construction of the skull, you will be able to show these variations so successfully that you will be able to draw practically any type you choose and make it convincing.

At the same time you can set down understandingly any type before you. By the time you
understand how the flesh is distributed over the
bones of the face, you will be able to vary the
expression of the same head. The thing to remember is that the skull is fixed in position, and,
with the exception of the jaw, immovable, and
that the flesh is mobile and ever-changing, and
also affected by health, emotion, and age. After
the skull is fully matured, it remains the same
through life and is a structural foundation for
the varying appearance of the flesh. Therefore
the skull is always the basis of approach, and
all other identifying features are built into or
upon it.

From the skull we get the spacing of the features, which is more important to the artist than the features themselves. The features must take their proper places in our construction. If they do, we have little trouble in drawing them. Trying to draw the features without having located them properly is an almost hopeless task. Eyes do strange things; mouths leer instead of smile; faces take on weird and unholy expressions. In trying to correct a face that appears to be out

A SHORT CHAT WITH THE READER

of drawing, the chances are that we will do just the wrong thing. Instead of moving an eye into its socket, we trim down a cheek; if a jaw line is out, we add more forehead. We should know, in first laying to the outline, that the whole head is in construction. This I am use you can learn from the pages that follow.

The big difference between the completely amateur attempt and the well-grounded approach is that the beginner starts by setting eyes, ears, noses, and months into blank white space, surrounded by some sort of an outline for the face. This is drawing in the two dimensions of height and width only. We must somehow get into the third dimension of thickness, which means that we must draw the whole head as it exists in space and build the face upon it. By doing so we are able not only to place the features, but also to establish the planes of light and shadow, and, further, to identify the humps, bumps, and creases as being caused by the underlying structure of muscle, bone, and fat.

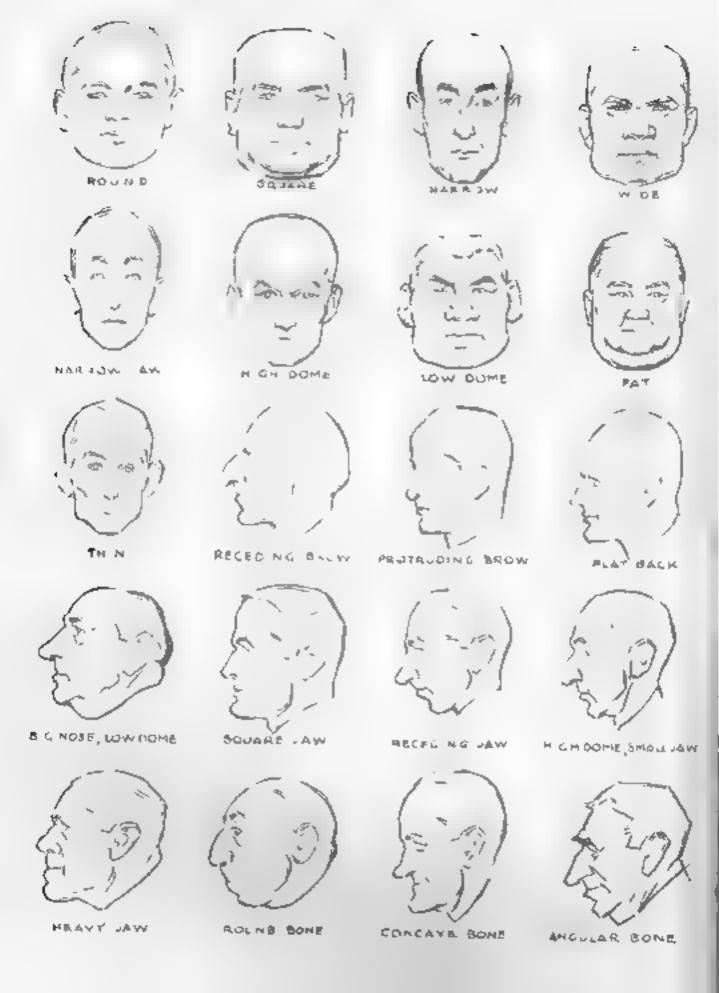
To help the beginner to start out with this third dimension, many approaches are suggested by various teachers. Some use an egg shape; others a cube or block. Some even start with one feature and start building the form out around it until the whole head is encompassed. However, all these involve many chances for error. Only the front view of the head looks like an egg, and even that gives no line of the jawbone. In profile the head is not like an egg-As for the cube, there is no accurate way of setting the head into it. The head is totally unlike a cube from any angle. The only value the cube has in drawing heads is to help set the construction lines into perspective, as you will learn later.

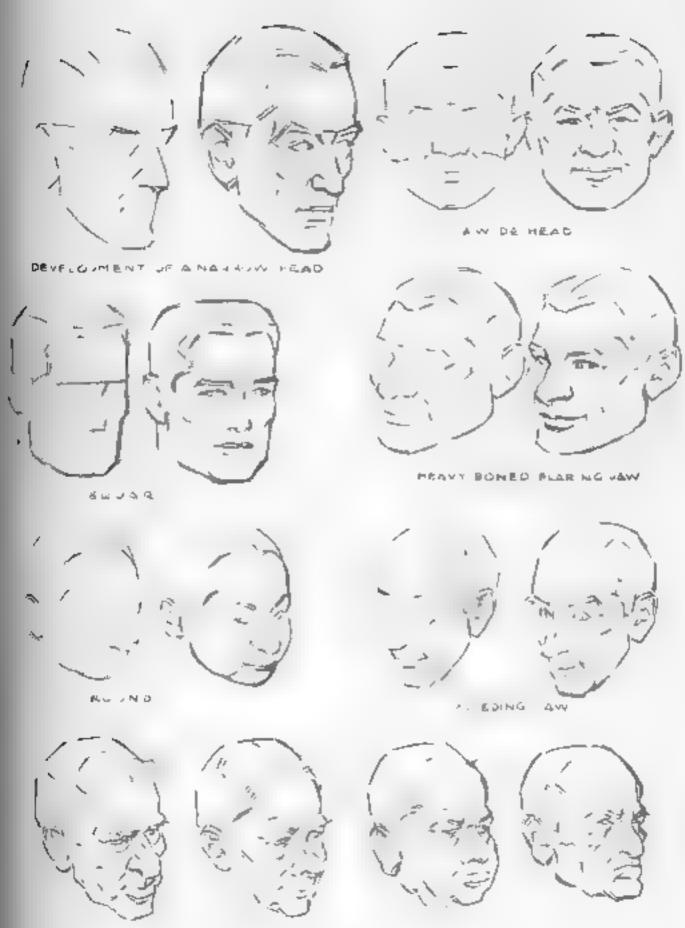
It seems more logical to start with a shape that is basically like the skull, one that is simple to draw and is accurate for purposes of construction. This can be done by drawing a ball resembling the cranium, which is round but flattened somewhat at the sides, and attaching

the jawbone and features to it. Some years ago I hit upon this plan and made it the basis of my first book, Fun with a Pencil. I am happy to say that the plan was received with great enthusiasm and is now widely used in schools and by professional artists. Any direct and efficient approach must presuppose the skull and its parts and its points of division. It is just as reasonable to start drawing a wheel with a square as it is to start drawing a head with a cube. By cutting off corners and further trimming the square you could eventually come out with a fairly good wheel. You could also chip away the cube until you had a head. But at best it's a long way around. Why not start with the circle or ball? If you can't draw a ball, use a coin or a conspass. The sculptor starts with a form of the general shape of the face attached to the ball of the cranium. He could not do otherwise,

I present this simple plan in this volume since it is the only approach that is at the same time creative and accurate. Any other accurate approach requires mechanical means, such as the projector, tracing, the pantograph, or using a squared-off enlargement. The big question is really whether you wish to develop the ability to draw a head, or whether you are content to use mechanical means of projecting it. My feeling is that, if the latter were the case, you would not have been interested in this book. When your bread and butter depends upon creating an absolute likeness, and you do not wish to gamble, make the best head you can by any means possible. However, if your work is to give you joy and the thrill of accomplishment, I urge you to aim at the advancement of your own ability.

The drawings on pages 14 and 15 show the possibilities of developing all kinds of types out of the variations of skulls. After you have learned to set up the ball and plane, you can do almost anything you please with it, fitting all parts into the construction by the divisions you make across the middle line of the face. You have at your disposal jaws, ears, mouths, noses, and eyes, all of which may be large or small. The





DIFFERRY A FEA DET A LONEL TO THE SAME CRANIUM

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cheekbones may be set high or low the appear hp may be long or short the cheeks full or sagging. By different combinations of these you can produce an almost endless variety of characters. It will be great fun for you to experiment

Although the construction of any head involves more or less the same problems, this book is civided into sections on drawing men, women, and children of various ages. As we shall see though the technical differences are slight, there is constuerable difference in approach and feel ing The technical problems are explained in Part One, and the knowledge acquired from that is applied in the later sections on heads.

To be able to draw hands convincingly to also very important to the artist and in this field too there is little material available. So Part Five has been included to help you understand the principles of construction on which realistic rendering of hands must be based.

Now let a get to work in earnost.



Part One: Men's Heads

Part One: Men's Heads

LET US BEGIN by establishing our common abjertive You may be interested in drawing as a hubby. You may be an art student attending drawing classes. You may be a young professional, out of school, striving to better your work so that it will bring in more ancome. Perhaps you studied art many years ago and now have the time and incentive to take it up again. Per haps you are well established in the field of commercial art, where competition is formiduble and are looking for something that will help you hold your place and, if possible, keep you moving forward. Whichever category you are in this book will be helpful to you, because it provides practical knowledge of the techreques of drawn g heads, both for the complete beginner and to help the more advenced artist in those most frustrating moments when the head he is drawing seems to refuse to do his work justice

There must be a genuine basic motive befind any genuine effort. Ask yourself quite honestly, "Why do I really want to draw bends and draw them we l?" Is it for the satisfaction of personal accomplishment? Does it mean enough to you to give up time from other things us order to learn? Do you hope someday to sell war work and make it your means of livelihoos2 Would you like to draw portraits, girls heads for calendars illustrations for magazine stories, the people to advertisements? Do you want to improve your drawing of heads to help sell your work? Is drawing a form of relaxation to you, belong to relieve tension and clear your mind of worrtes and other problems? Search quietly and thoroughly for this basic molwe, because if it is powerful enough, it will give your efforts the strength to withstand discouragement, disappointment, distillusionment, or even seeming failure

May I add one suggestion? Whatever your

motive, try not to be impatient. Impatience has probably been a lagger stumbing block in the way of real ability than anything else Doing anything well. I'm sure means hurdling obstacles of one kind or another most of the way to the goal. Skill is the ability to overcome obstacles, the first of which is usually lack of knowledge about the thirg we wish to do. It is the same in anything we attempt. Skill is a result of trying again and again, applying our ability and proving our knowledge as we gain it. Let us get used to throwing away the ansuccessful effort and doing the job over. Let us consider obstacles as samething to be expected in any endeavor, then they won't seem quite so insurmountable or so defeating.

Our procedure will be a little different from that of the usual textbook. In general, textbooks seem to confine the material solely to problem and solution, or to technical analysis. That in my own belief is one of the reasons why texibooks are so difficult to read and digest. Every concentrated creative effort involves a personality since skill is a persona matter. Since we are dealing not with organic material, he mits and bolts but with human quarties like hope and ambition, faith or discouragement, we must throw out the textbook formulas and consider personal achievement as the basic element of our planning. An instructor would not be very helpful if he gave his students only the words of a textbook, all cold hard fact, without feeling, without peause or personal encouragement. I cannot participate in all your personal problems. but I can certainly remember my own, and assume that yours will not be greatly different. Therefore this book anticipates the solution of these problems even before you meet them. I believe that is the only way to handle this type of subject effectively

There is an element of joy in doing what you

have proved to yourself to be right it is my job here to give you the working materials with which to make your own effort successful rather than to show that anyone can succeed. Success comes only with personal effort, aided by what ever knowledge the individual can apply along with the effort. If this were not true we would be able to no anything in the world simply by reading books. We als know this is not true. There are books on almost any subject. Their value depends upon the amount of knowledge they contribute and on how well it is absorbed and put into practice.

To draw heads well, the artist must detach his mind from the sitter's emotional qualities and develop an objective viewpoint. Otherwise he could go on drawing the same head forever almost each moment noting a subtle change of expression or a different mood in the subject. One face can vary in a thousand ways, and a drawing must show the effect of a single instant. Let him thick of the head as only so much form in space, like a piece of still ale rather than an an ever-changing personality.

To the beginner there is a certain advantage in drawing from a cast, or from a photograph, for at least the subject is not moving and he can regard it objective voit is logical that our book begin purely from an objective approach with a form most like the average head, with average features and average spacings, individual characteristics are much too complicated until we are able to be them into a basic structure one that is reasonably sound and accurate. Let us fix in our minds that the skull itself is the structure and all the rest merely trimmings.

Anatomy and construction can appear dull, but not to the builder. It might be dud to learn how to use a saw and hammer, but not when you are making a building of your own. It may be hard to think of the head as a mechanism. But if you were inventing a mechanism, it would never lack interest. Just realize that the head must be a good mechanism in order to be a fine head, and you will draw it with as much interest.

as you would have in putting a part into a motor which you wanted to give a good performance.

It is evident, then, that we need to start with a basic shape that is as nearly like the skull as we can get it. Looking at the cran um, we see if most nearly like a bail, flattened at the sides and somewhat fuller in the back than the front. The bones of the face, including the eye-sockets, the nose, the upper and lower jaw, are all fastened to the front of this bad. Our first concern is to be able to construct the ball and the facia, piane so that they operate as one unit which may be tipped or turned in any manner. It is of islmost importance that we construct the head in its complete and solid form rather than just the visible portion of it. Naturally we cannot see more than half the head at any time. From the standpoint of construction the half we cannot see is just as important as the visible half

It you look at Plate 1 you will note that I have treated the ball as if the under half were transparent so that the construction of the whole ball is made evident. In this way the drawing on the visible side of the head can be made to appear to go all the way round so that the area we cannot see can be imagined as a dopheate of what we do see. An old instructor of mine once said. "Be able to draw the inseen car," which, at the time, puzzled me no end I after resided what he meant. A head is not drawn until you can feel the unseen side.

It must be obvious from the preceding that it is impossible to draw the head correctly by starting with an eye or nose ob vious of the skull and the placement of features within it. One might as easily try to draw a car by starting with the steering wheel. In all drawing no part can be as important as the whole, and the whole is always a fitting together of proportionate parts. We can always subdivide the whole into its parts instead of guessing at the parts, hoping they will go together in the proper proportions. For example, it is easier to know that the forebead is one-third of the face, and what its position is on the skull, than to build the skull from

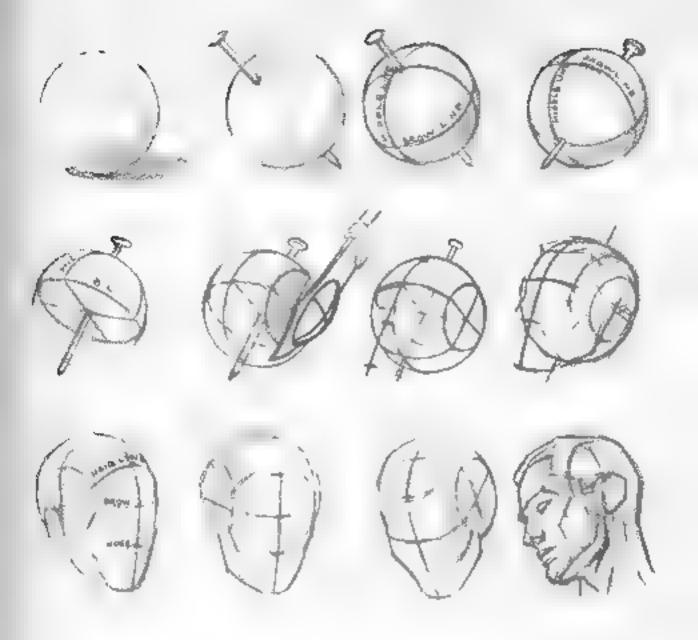


PLATE 1 The basic shape is a flattened ball

The cramum is more like a ball than anothing else. To represent the ball as a solid sphere, we must establish an axis like the nail through the hall at the top. Through the centers established by the axis, we can divide the ball into quarters and again at the equator. Now if we were to three off # fairly thin slice on each side, we will have produced a basic shape that very closely matches the cranium. The "equator-becomes the brow line-One of the lines through the axis becomes the middle one of the face. About ha fway up from the prow one to the axis, we establish the halo he. or the top of the face. We drop the middle one straight down off the ball. On this we mark off two points about equal to the space of the forehead. or from brow one to hairline. This gives as the length of the nose, and below that the bottom of the chin. We can now draw the plane of the face by drawing in the jaw tine, which connects about halfway around the half on each side. The ears attach along the halfway ane -up and down -at a distance about equal to the space of from the brows to the bottom of the nose The ball can be tipped in any direction.

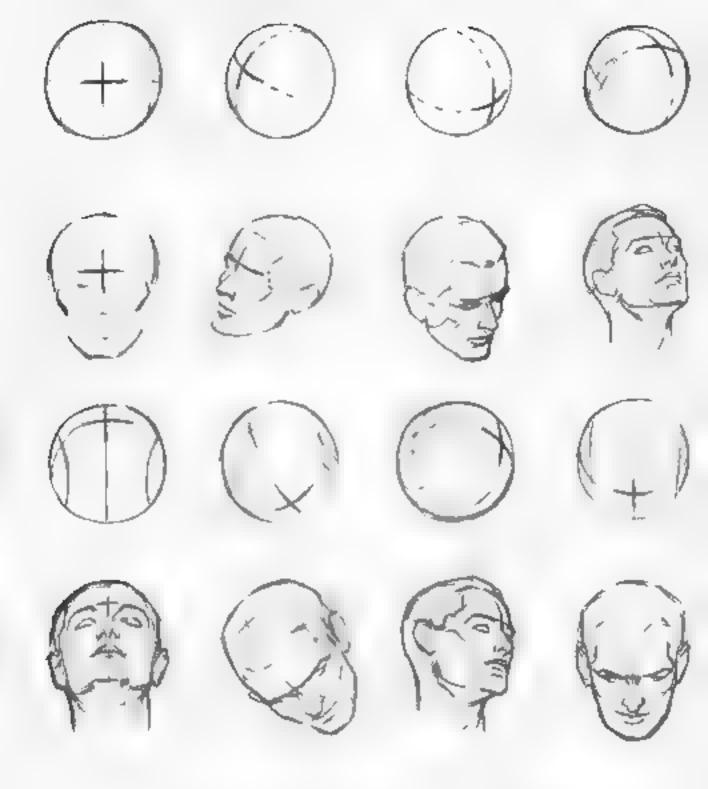


PLATE 2 The all-important cross on the ball

The "gross," or the point (where the brow line crosses the middle line of the face, is the key point of the construction of the whole head. It determines the position of the facial plane on the half or the angle from which we see the face. It is easily spotted on the model or copy. By continuing the line up and down, we establish the middle line of the whole head. We draw the two sides of the face and head from this line. By continuing the brow line around the head we can locate the cars.

the forehead. Perhaps we have always thought of the head so much in terms of belonging to a definite individual that we have never considered it in a nechanical sense. It perhaps never occurs to us that a smile is a mechanical principle in artion, as well as evidence of a beaming personably. Actually the mechanics involved in a smile are the same as those used to a drawstring on a cartain. The str og is attached to something fixed at one end, and to the materia, at the other Fig. 1g the strong buckles the material. The cheek plu ups out in the same way. The working of the jaw is lace a lange or a dernek, but the lunge is of the ball and socket type. The eves rote in their sockets like a ball bearing held in piace. The eye ids and the -ps are oke slits in a miner has which naturally close except when they are pulled apart. There is a mechanical principle beneath every expression put into action by the bra a Lader yag the flesh of the face are muscles which are capable of expansion and contraction, just like all the other muscles of the book. We discuss this interesting material in more detail later

We start drawing the head by establishing points on the buil and on the facial plane Both he buil and the facial plane must be subtivided in order to establish those points. No matter how much you draw how skelled you get to be how wet trained your eye becomes you will always have to begin by birkling the head correctly just as a corpenter no matter how long he has worked always measures a board before he cuts it. Construction of the face and head depends upon establishing the points of measurement. Any other way is bound to be guesswork, which is a gamble any way you take it. For the one time you guess right, there are many inevitable mistakes.

The most important point in the head from which to build the construction of the face is the point immediately above the bridge of the nose, between the brows. This point remains always fixed and is indicated by the vertical line of the nose and the crossline of the brows. On

the ball this is the junction of the equator" and The prime mercana, the two hies that out the ball in half vertically and horizontally. All measprepients spring from this point. About Juli was up from this point to the top center of the head we get the hairline and have therefore spaced off the forehead. Dropping down ar equal distance below the crosspoint, we get the kingth of the nose since the distance from the up of the nose to the brows is, on an average, equal to the height of the forehead. Measuring the same distance down, we get the bottom of the clim, for the distance from the bottom of the chil to the base of the nose equals the space from there to the brows, and from that point to the hardine Sc. it's one two, three spaces, all equal down the middle line of the face. See Plates 3 and 4. I suggest you take paper and pencil and start drawing these heads, tipping them in every possible direction. This can well be your first real period of study. What you do now will affect everything you do from here on Plate 4 will give you an idea of how to place the features properly. The placement is more important than the drawing of the features themselves. At this stage it is not too important that the details of the features be correct. Get them to fall within the construction dies, so that the two sides of the lace seem to match, whatever the viewpoint

The next time you work with this book, turn to Plate 5, which is a simplified statement of the bone structure. No one detail of the bone structure is of great importance. but its total shape is of paramount importance. Within the shape we must locate the eve-sockets, spacing them carefully on either side of the middle line. We locate the two cheekbones opposite each other, and the bridge of the nose which must lie on the middle line at the top and extend out from the middle line at the bottom. We locate the corner of the jaw and bring the jaw line down to the chin. Every head must be constructed so that all the features balance on the middle line. Plate 6 gives you more of the actual appearance.

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and placement of the bones. Note how in these drawings you are aware if the construction all around the head. I personally try to get the feeling that these are not outlines, but the edges of soud forms that I could slide my hand around Do you feel as if you could pick up these heads with your two hands and that you would find them just as solid a back as in front? That is what we are working for just now

Plate 7 shows the action of the head on its pivot point ut the top of the spine and at the pase of the said. We must remember that this pivot is well inside the roundness of the neck and deep oneer the skull. It does not have a herge action but a rotating action from a point a sittle back of the center line of the neck So when the head is tipped backward the neek is stmeezed and onliges somewhat, forming a crease at the base of the skall. When the head is tipped terward, the larvax or Adam's apple is dropped dows and hides itself within the neck. In the lateral movements there is a strong play of the long muscles which attach to the skull behind the ears and down in front to the breastbone between the collarbones. At the back are the two strong muscles which attach to the base of the skall to pull the head backward. To get a head to sit properly on the neck requires some

knowledge of anatony which is discussed later

Some artists like to think of the head as being built of pieces which will fit together and fact into place to give the understructure of the head. See Plate 8. This is especially helpful in suggesting the third dimension, that of thickness, in your drawing. Much too often the face is drawn as something flat. We must consider the roundness of the mizzle-the two jaws as they come together. Because it is jost in the deshiness of the face, we may forget the sharp curve of the teeth behind the lips. This is even more pronounced in animals, to which a sharp deep late may make the difference between life and death. Thouk of the front teeth as choppers and the back teeth as greaders. The fangs. or what we call eveteeth in human beings, are what an animal uses to hang on with or to suish and tear. To impress upon yourse I what the roundness of this area really is like, take a bite out of a piece of bread and study it. You will probably never draw lips flutly again. We must also remember that the eyes are round, though most of the time we see them drawn flatty like a sht in a piece of paper. The eyes, nose, mouth, and chin all have this three-dimensional quality which cannot be sacrifierd without losing the solidity of the whole head.

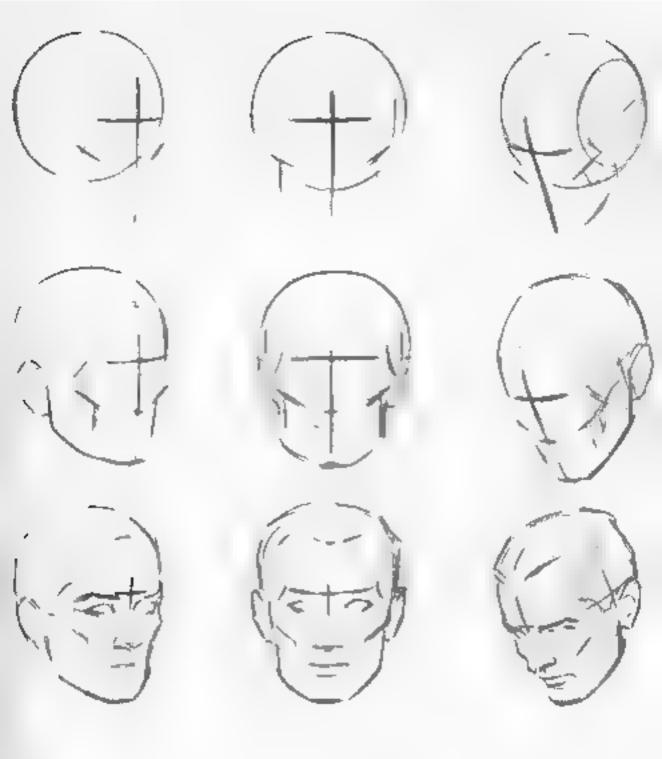


PLATE 3 The cross and the middle line determine the pose

Get out your pencil and pad.

It is most important to begin at once to practice setting up the ball and facial plane. Do not worsy too much now about the features. This is simply construction, which you will probably use for the rest of your life. Establish the cross. Try to think of the construction all around the head so that the taws attach halfway around on each side. Remember that the eves and cheekbones are below the brow line. The ears are about parallel with the lines of the brows and that of the nose. The cross almost suggests the face below. With this approach we can start drawing the whole bead in any pose.

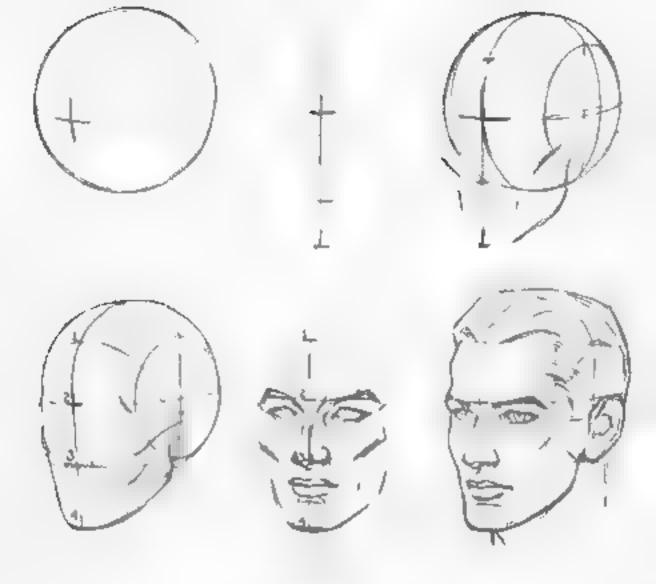


PLATE 4 Establishing the middle line

Start placing the features carefully

If you have worked out the ball and plane and its divisions you will not have too much trouble in placing the features. However you should reauze that a teature will never fit on a head until it is piaced correctly and in one with the construction ones of the whole head, levery artist must be prepared for a certain amount of struggle with construction, so do not allow vourself to get discouraged. Every head anyone draws depends on construction just as much as every building, every ear every other threedimensional object does. That is what the artist's job really is in learning how. to construct things in three dimensions on a two-dimensional surface. We have to think of each thing we draw in its entirety and see how its dimensions. appear to us from our particular viewpoint. Representation in three dimensions calls for knowledge and study. But such knowledge is no more difficult. than that required for any other field. No matter how great your talent Inlent has to work with knowledge to do anything well. When the search for particular knowledge becomes pleasant as well, half the battle is won. Construction need not worry you: it comes with practice



PLATE 5. Simplified bone structure

At this point it will help a great deal in constructing the head to have a fairly clear idea of the bone structure. Though we do not see the bones in detail, we must think of them as the tramework of the head. All the division points of the head are related to the bones not to the flesh. The reason we chose the ball and plane as an approach now becomes apparent for our approach is the skull itself, simplified and made understandable.

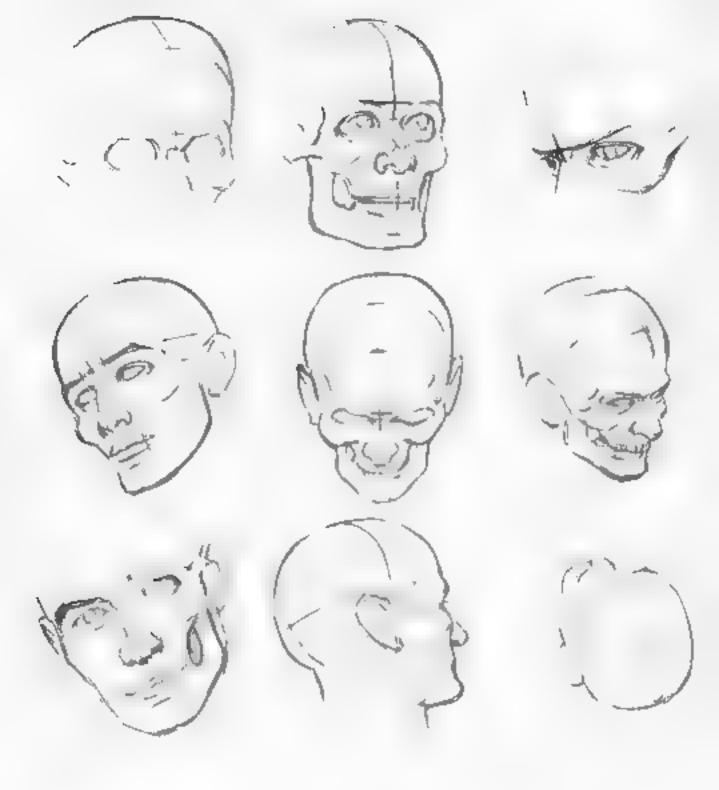


PLATE 6 The bony parts within the construction

Here we look at the bones more closely realizing that, with the exception of the cheeks, all the flesh of the head hes over hone and is influenced by the shape of the tique. This simplifies our problem considerable for except for the jaw the hones of the skill are all in a fixed position and move only as the whole head moves. Only the flesh around the eyes, the cheeks and the mouth are capable of separate movement.

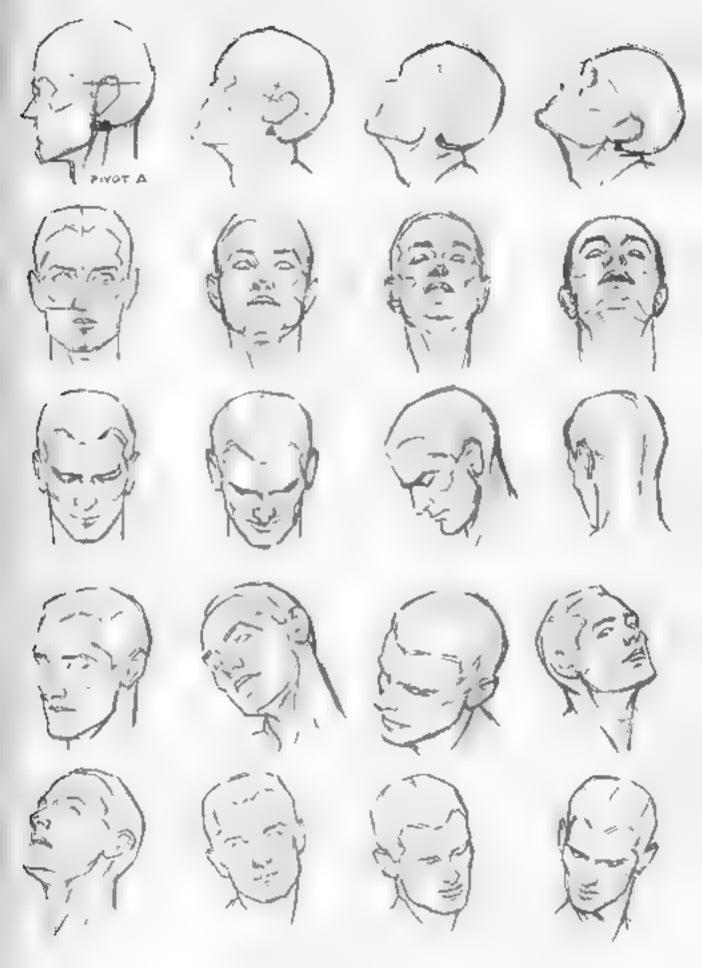


PLATE 7 Action of the head on the neck

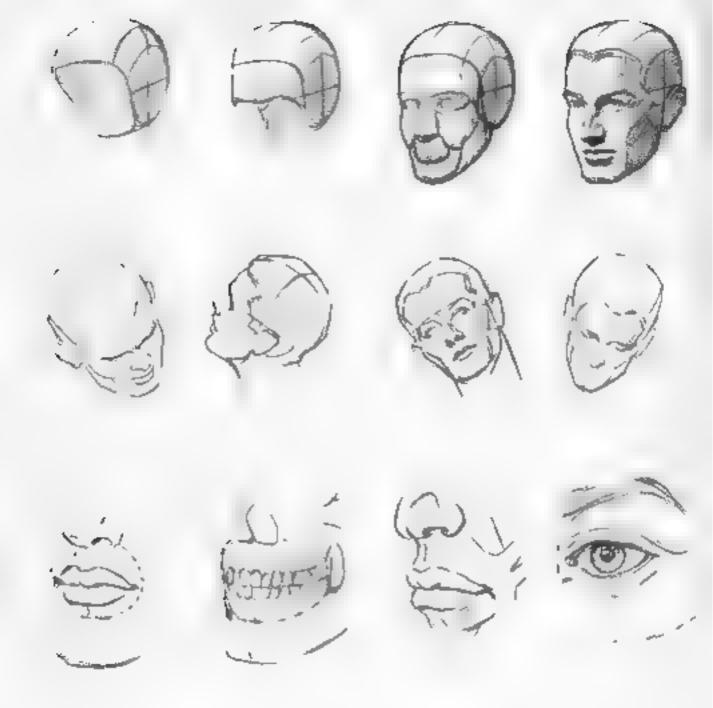


PLATE 8 Building the head out of pieces

If we think of the head as made up of separate pieces fitted together we find the pieces shaped and put together as they appear in the drawings in the top row. Note the rounded piece which would contain the lips. We refer to this part of the skull as the "muzzle" In drawing the month we must make it fit around the coave of the upper and sower jaws and the front teeth. Too often the mouth is drawn as if it were flat against a flat surface. In the bottom row the three drawings at the seft show the lips and the structure under them. The eye must also lie in its socket, as shown at the right. The eyelids operate much like the lips in closing over a rounded surface.

PLANES

We began by considering the head as round This is logical oceanse it is much more round than square. However, one of the later discoveries in art was the fact that incessant roundjess can accome almost borneg, and that a combination of roundness with squareness can pronce a vigor of execution which many of the ad aasters lacked. The effect of roundness tends toward the "slickness" so frowned upon by moner artists and critics. A though the roundess exists, as photographs show this type of reno tion never seen's to have the vigor of a draw g or painting in which the planes are stressed. For this reason a photograph of a head an never aope to compete with a good drawing as far as vitably of execution is concerned It seems to me that the ideal lies somewhere betweet the two extremes. A drawing that is too square car pook as if it were classfed out of wood or stone with more hardness than the ameet warrar is. On the other hand, a drawing that is too round may have so much sweetness and smoothness that it seems to have no structure at all beneath the surface everything is potested and slavy. Of the two, I prefer too much character to too aftire. Artists have found tant by si, aming the planes, softening them only change to refleve their broken-stone effect, they achieve solid ty and vitality without going to extremes. It also has been discovered that flatward planes tend to merge into an effect of mere roundness at a distance. When you inspect a projection on a large screen from close up it is surprising how flat the image is. However if you step back, this flatness disappears and the full roundness seems to take over. The truth is that the halftones which mode, a surface are really much more delicate than they appear to be, and this truth has been a boon to painters.

For the time being, however let us draw the planes as we fee, they would really lie on the form. Through these planes we can interpret the true solidity as in no other way. It is better to learn to turn the form in its true structure than to court the faring entirely so it may appear flat and without form. Remember that no a drawing the planes may be stressed considerably more than they can be coa painting, since we are dealing with fewer conducting values. Just now we are not concerned with values or shading, as it is often called by the layman. We symply want to know what places will give the basic form the general shape of the face and head. In other words, we want to get out of the rooted i to more blocky forms for this Lockiness gives moch more character, especia ly to me as heads Turn to Plate 9. I suggest that you study this page carefully as order to fix these planes in your memory. They are the chords from which you bucklimuste they are basic and almost any head can be built on them

After you have elemotized these places try tilting the head and incorporating the visible planes, as shown in Plate 13. From these planer you car go in to perspective as le soi strites to Plate 11. When you have pustered the construction of the ball and pigues of the face learned to use correct spacing and construction lines, and have assembled the planes, you have come a long way toware good drawn g of hear's You should now be able to spot many of the difficulties that ause, and roake the corrections in your basic drawing. Many a portrait has been started, or by for the art state discover after days of work that the basic construct it is at fault Something must be moved -an eye, the nose or the mouth, and a likeness of the desired expression surply refuses to come a mot. A very good way of studying construction is to diaw the construction lines on a chipping of someone else's picture of a head, so that you can see the exact placement of all parts. Once you miderstand the construction yourself, it becomes

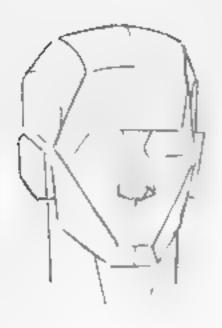
DRAWING THE HEAD AND HANDS

woefully apparent to you when the other fellow does not. Some very ciever artists do not ready know how to construct correctly, and they spend many hours of added difficulty as a result. No 'knack of drawing heads can compete with sound knowledge.

In Plates 12 to 16, I have planned a little fun for you. We start taking some liberties with the basic balt and planes. You will do this better without copy. We do some experimenting with types as I promised early in the book. To produce different types we can vary the ideal or average measurements. The three divisions of the middle and of the face can be made uneq ad or oxuggerated as you wish. Then we can vary the shape of the cranam and bony under structure. I suggest that you play with expressions and characterizations. It is interesting and sometimes amazing what you can produce in the way of churacters by variation in the spacing and basic shapes. You hardly know before finishing what type you will end up with. On the other hand, you can actually plan a given type and come very close to achieving the result you want. You will find yourself drawing heads that are most convincing, that have even a professtoral took. I suggest you try beards, mustaches, high or low thin or heavy evebrows, big noses.

little noses jutting chins, receding chins, narrow heads, wide heads flaring jaws, and what not. Have some real fun while you are at it. you may or may not be interested in cartoning, but it is fun to draw characters, and you will, find that you can do better than you might have thought possible Watch the perspective and construction as carefully as you would in drawing any head, but exaggerate all you can. A good way to experiment is to jot down beforehand a little description of the character you wish to draw then try to draw the head you have described. Next ask someone else to give you a description of a character. Try that Such practice means that you can, at an early stage of your knowledge began to create as you would if you were an illustrator. Stick fairly close to outline heads just now but try to create the type you want.

As an example your description in ght be something like this. John is big and raw boned the eves are deepset under shaggy brows. There are hollows under his checkbones. He has a big nose heavy jaw and chin. His hair though this on top is his he around his cars and the back of his head. His eves are soull dark, and beady. Now tey to draw John with the knowledge at your present command.



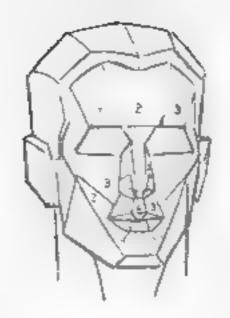






PLATE 9 Basic and secondary planes of the head

The planes of the head should be memorized, for through them we have a foundation for rendering the head in light and shadow. Begin with the basic planes, top, left, and study them until they are fixed in your mind. Then take up the secondary planes. From these sets of planes almost any head can be built. The surface varies with the individual character, but with the planes shown here you can produce a well-proportioned, manly head.



PLATE 10 Tilting the head

Planes help us to maintain construction throughout the face and head, within the construction lines or divisions of the basic ball and plane. The muzzle becomes easier to draw in all sorts of tilten positions. The slant of the cheeks and the rounded rectangle of the forehead fall into place within the three divisions of the face. By thus representing the head in block form, we determine the angles throughout the head. This is our first step toward the perspective of the head.

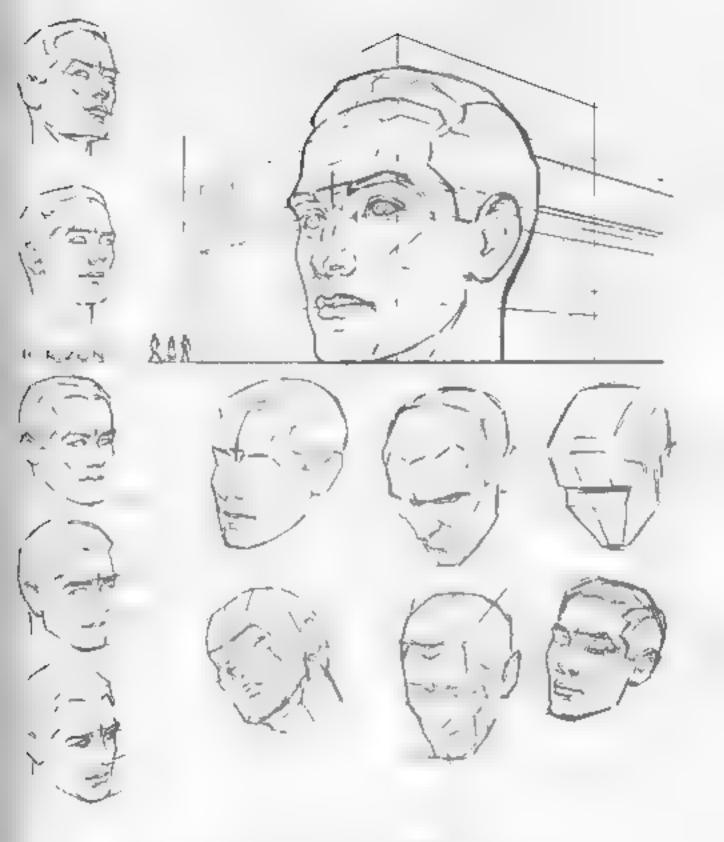


PLATE 11 Perspective in drawing the head

The handling of perspective marks the difference between the amateur and the professional. Every object drawn has to have an eve level or horizon, felt if not actually represented. On the left we see the planes of the head as seen from above or below the eve level. If a head were as big as a building it would be affected by perspective in the same way as a building is.

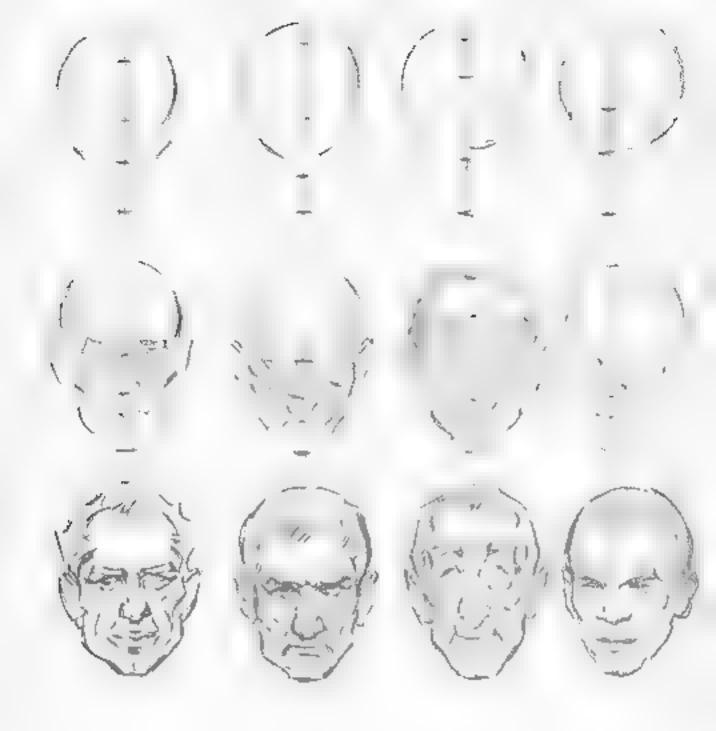


PLATE 12 Variety in specing creates types

In order to create differences in type and character we may decide not to follow the basic measurements or divisions too meticulously. By varying the proportions of the three divisions of the face, we come up with a good deal of variety in the results. There are thousands of possible combinations it is fun to experiment with them.



PLATE 13 Always build on the middle line

Always remember when drawing a head to balance the forms on both sides of the middle line. The bony parts stay fixed, and the expression fits in between. All the jaw can do is open and close. The expression lies in the eyes, cheeks, and mouth, with some wrinkling of the forehead and around the eyes. What we do on one side, we must do on the other

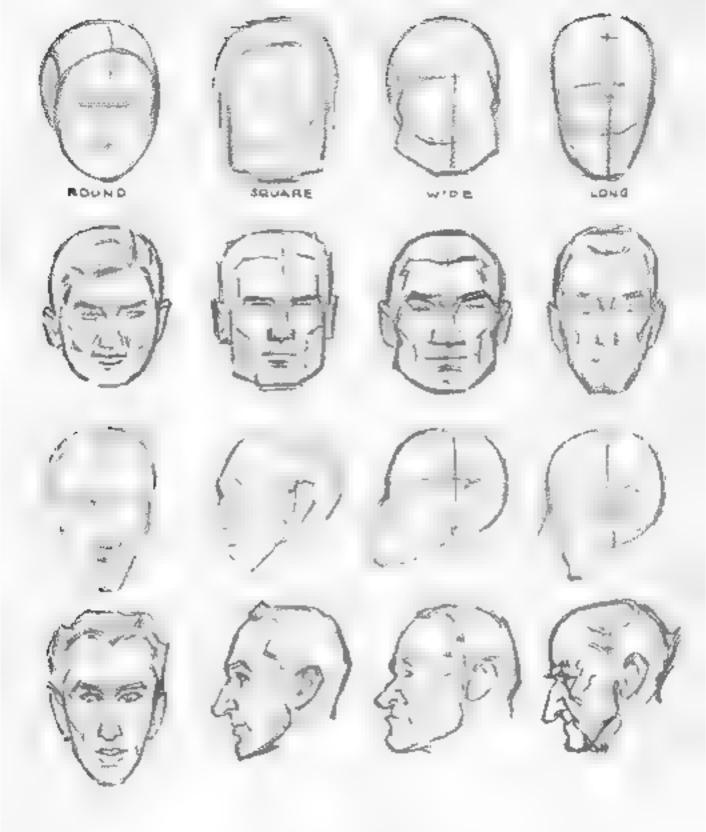


PLATE 14 Creating any desired type

There is no reason why you can't take all the liberties you wish with the ball and plane. The variety of types mentioned in the early part of the book are drawn simply by building an understructure that is wide, square, long, narrow, or anything you wish. You have the basis of construction, so now just try some variations.

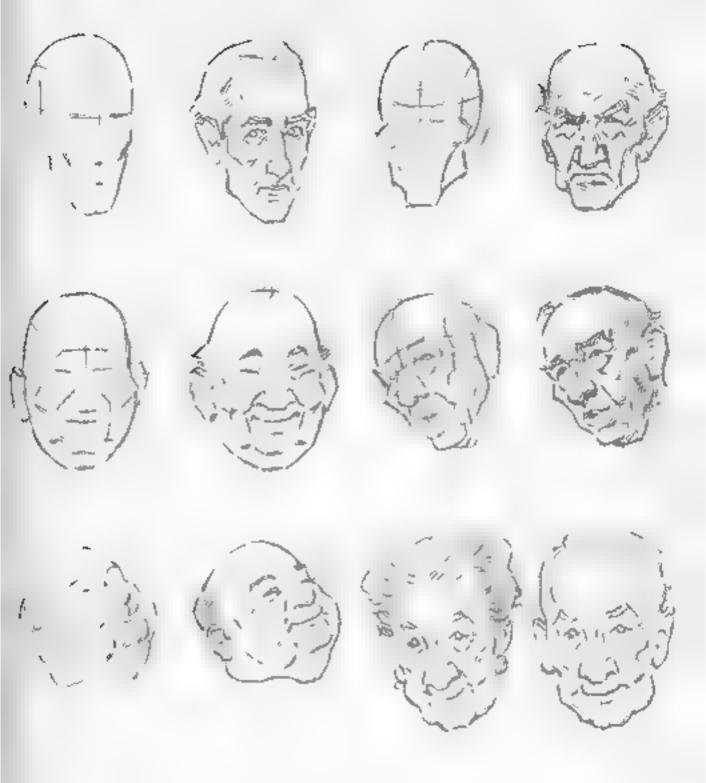


PLATE 15 Types are built by varying the ball and the plane

Look about among the people you know and those you see around you. Study them with a new understanding. See the combinations created by nature. Look from hairline to brow. then at the middle area from brow to bottom of nose, and finally to the bottom of the chin. Look down the middle line of a face, study what you see on each side.



PLATE 16 Indicating character

Once you know how the lines of construction are set up in a head, you can quickly analyze faces and skulls. Always look first for the bony shapes, and the location of the features. Then look for the flesh formations in the checks, around the mouth, and around the eyes. Such formations can be easily indicated. See if the checkbones are prominent and accented by shadow shapes under them. Look at the nose and the formation of the nostrils, the lips, and the creases between the lips and checks. Follow the shapes down into the chin and along the paw line. These general characteristics, along with the whole shape of the head, are more important than a photographic delineation of each square useh of surface. Older people are more interesting than the young for this sort of study, since the characteristics have had a chance to develop.

RHYTHM

Rhythm in arawing is something you feel. Rhythm must be closely associated with design, and every head has design. There is a related flow of line one line working with or opposed to another. Bhythm is freedom in drawing, freedom to express shapes, not meticulously but in harmony. Rhythm is the hand working with the orain, more than with the eye, the feel of the thing rather than the look of it. In drawing, rhythm comes with practice just as it does with a golf club. No one can tell you how to acquire it but as you become conscious of it you begin to recognize it when it is there.

To try to describe thytem in drawing let us say that the artist is feeling the simplified shape of the whole thing as he draws every part of it You see his hands awinging over the paper before the pencil goes down. He feels the stroke before he makes it. Rhythm need not always be curves. Curves may oppose blockmess. Rhythm. in ght be an accent where it will do most good. It is more often the saggestion of the form rather han the closely scrutinized detail of the form. Here ugu a the artist waves the camera far hehing for the camera most record detailed fact. and only when rhythm is set up before it can It eaten this elusive you 4y. The onlooker senses thythm in your work even if he cannot consclously define it. You sense rhythm an some handwriting while other specimens are cramped. jerky, and serawly

Some people have natural rhythm others must strive to acquire it. Take the pencil in the palin of your hand between the thamb and first finger rather than holding it as you would to write between tight, cramped fingers. Swing it

over your paper using your wrist and arm and keeping your fingers still. That is the way to draw a rhythmic line. You can trum your hand to draw instead of using the briggers. Movement becomes associated with the whole arm rather than with the fingertips. Draw things large for a while George Brigman, the famous anatomy teacher used to illustrate his lectures by drawing with a crayon on the end of a four-foot stick. Some of his anatomy drawings were many times larger than life, and they were beautiful.

Rhythm is all about us, but we must train ourselves to see and recognize it. It in ght be described as the longest are straight or curved, that you can make before the direction of the edge changes. A long direct line is more expressive than a myrrad of little whiskers lines. As arrow in flight is a perfect example of rhythm. The movement of water or waves is another. The arc of a baseball in the air the way a fielder drops his hands on the line of flight as he catches the ball, the movement of the forms in a woman's hair, all, have rhythm. We might call it the uninterrupted flow of the artist's hand.

I cannot tell you how to act, are it but I do believe you can Awkwardness comes from lack of training, rhythm from trained organization or coordination, perhaps both—knowledge and ability working together. Rhythm is one thing no camera or projector can ever give you. You feel it and strive to express it or you don't. Swing that pencil over your paper just to draw a free line. Nobody ever does it too well the first time be tries.

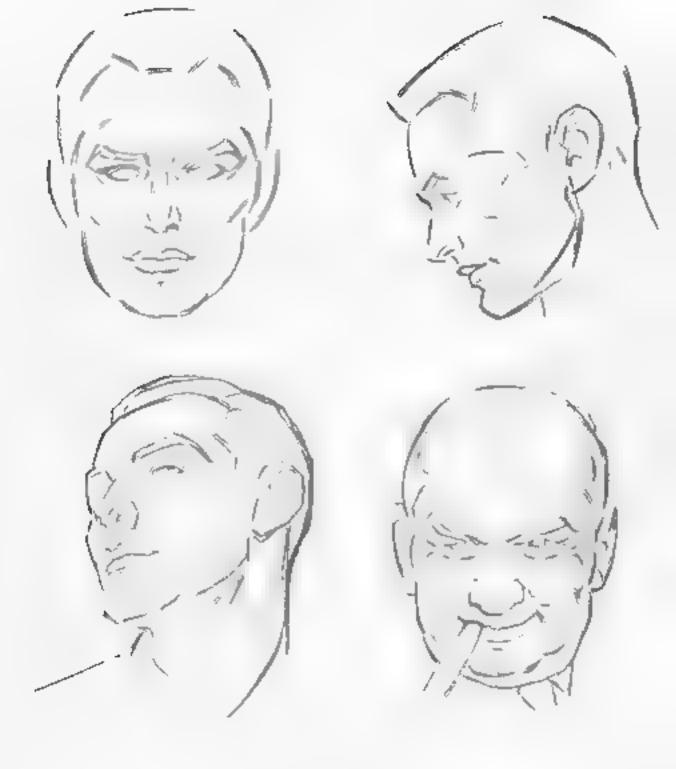


PLATE 17 Rhythmic lines in the head

It is interesting to search for the rhythmic lines in faces. You will find rounded or curved lines in opposition to angular and blocky lines. The blocky treatment helps to get away from the tight photographic approach. Then the head looks drawn, not traced. There is charm in curves but square forms have weight and solidity. You can produce happy results by combining the two instead of merely copying every waver of every edge in exact outline. In this way you set a feeling of design, and at the same time render solid form.

THE STANDARD HEAD

Heads will naturally vary in measurement and proportion. However any artist will find it most practical to carry in his mind as basic measurements a scale of proportions, built on averages and simplified. The front view of the head fits quito we I into a rectangle that is three units of measurement wings, and three and a half deep. This scale leaves a little space beyond the ears on each side. The half measurements of these units locate the eyes and nose and help in placing the mouth, and also put the line of the eyes at the halfway division of the whole head from top to bottom, as it should be and as

it averages out in a large percentage of actual faces. This method of unit measurement locates the hairline and the three front divisions of the face. The side view of the head fits exactly into a square three and one-half units in each direction. You can establish your own unit it is the proportions that are important

These proportions, shown in Plate 18, have been worked out after a great deal of research and are offered to meet the need for a supple and practical scale that is readily usable. This scale fits perfectly with the ball-and-plane approach.

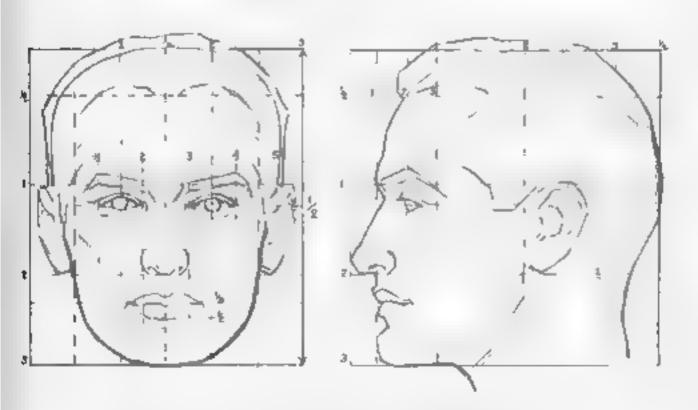
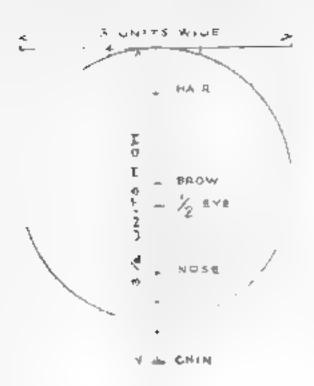
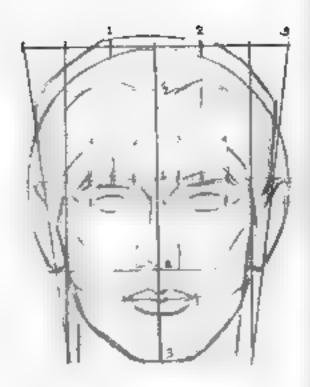


PLATE 18 Proportions of the mole head

The standard proportions for a man's head are worked out here for the front view and the side view. The scale may easily be memorized. The head is three and one-half optional) units high, nearly three units wide (to include the ears), and three and one-half units from tip of nose to the back of the head. The three units divide the face into forchead nose, and jaw. Ears nose to brow hips and chin are each one unit. So you may start in this way to draw a head in any size you wish, using your own anit of measurement.





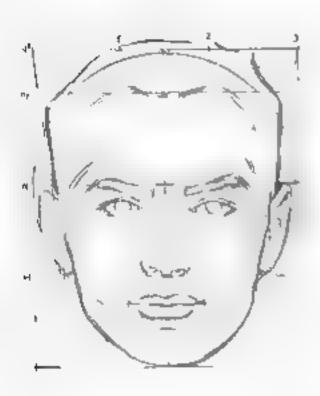




PLATE 19 Drawing the head in units

Here you see how the scale works out in practice. The circle represents the ball, and the width is the width of the head, including the ears. We find that the face is about two units wide and that the eyes fall between the middle halves or at the quarter points of the two units (see upper right). This coincides with the divisions of the ball and plane with which you are already familiar.

MUSCLES OF THE HEAD AND FACE

I do not see any material advantage to the artist in knowing the names of a i the muscles and bones of the bead, but it is of great importance to him to know where they are, where they attach and what they do D is important to know that some muscles are attached directly to some at both ends while others are attached to bone at one end and to other bands of muscles at the other. The former have the function of moving the bony structure. The latter move the flexh. Plate 20 shows the muscles and how they are connected.

The most apports it in sole of the head is the powerful muscle that closes the jaw. You feel it at the corner of the jaw just below and in front of the ear. Carens acrobats have been mown to oar gle the weight of the whole both at the end of a cope by hitting a bit of hard robber attached to the rope end. The jaw is also attached to a muscle that spreads out over the side of the crumon. These two muscles give the power to crunch and grind food in the mouth.

A very marvelous mechanical principle functions in the eves and month. Both are slits in a circi for sheet of muscle. If you took half of a hollow rubber bal and cit a slit in it without stress on the rubber, the slit would close itself. Under tension you could eas to pull the slit open. The dropping of the weight of the jaw opens the month. To open the month wide is a conscious effort. To keep the month closed ready tequires very little effort sa piece of knowledge that can be used to great advantage at times

Very important are the little ribbon-like muscles which open the lips aterally putling at the corners of the mouth. These are the "smile muscles." They are the ones that puff the cheeks by contracting within the flesh. When they pull diagonally upward and a smile flashes, great things may happen, far beyond mere mechanics. Remember these as the "happy muscles." They attach at the cheekbones and run diagonally down the cheeks to the muscles around the lips.

Note the muscles which run down the side of the nose past the corners of the mouth to the chan These are the 'unhappy muscles." Being attached to the hone around the nose at one end and to the jaw at the other they can pull the lips upward in a snarl or downward in a leer. Working from both ends, they expose the tooth the way an arimal shows its far gs. These moreles are operating from both enos wher you brigh your feeth. They seem to pull down ward when you are lifting a beavy weight, or in extreme muscular effort of the body like purmng. They make round corners at the mouth, where in the sinde the corners are polled out and upward. Try to associate the happy and the unhappy muscles, for they are the basis of most facial expressions. The wrinkles at the corners of the ever are so up y can sed by the flesh of the cheeks backling by the upward pul-of the happy musetes below the cheekbones. The bulging of the cheeks also causes the crease or fold of flesh under the eyes at a scale. It is more pronounced in some faces than others. As the "happy muscles pull at each side in the smile. the nostrals may flare a little and become more evident, which is one of the things that help to make a face smile

The dimple or downward line occurring in the lower part of the smring check is caused by the little open space between the "inhappy muscle" and the jaw muscle. In old age this depression becomes very evident. In the young face it is a dimple

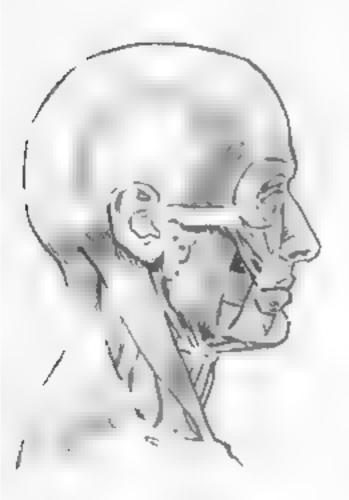
The rest of the face muscles are simply what we may call wrinkle muscles." There is one at the mude corner of the orows near the nose. This one lifts the corner of the evebrow as in worry or in an expression of plead og. The "unhappy muscle" pulls down the inside corner of the brow in a frown. The two wrinkle muscles."

DRAWING THE HEAD AND HANDS

above the brows also wrinkle the forehead, since they are contracting beneath the flesh, but are also attached to the flesh

There are two small wrinkle muscles at the

point of the chin. The depression between these muscles may account for a dimple in the mildle of the chin. They also cause the chin to buckle into little bumps in some expressions





FLATE 20. Anotomy of the head

When you are studying the muscles of the face, get in front of a mirror and give them a good working over. From that and from these drawings you will learn a great deal about expression and the why of it.

Give some consideration to the muscles of the neck for you usually have to draw a head on a neck. The two diagonally placed muscles that turn the head are attached to the skull just believe the ears at the top, and to the breasthone which has between the two collarbones, at the bottom. Two strong muscles attached to the back of the head underneath the back of the skull hold the head up or tip it backward. The head drops forward mostly of its own weight.

To know these muscles will help you tremendously in drawing heads

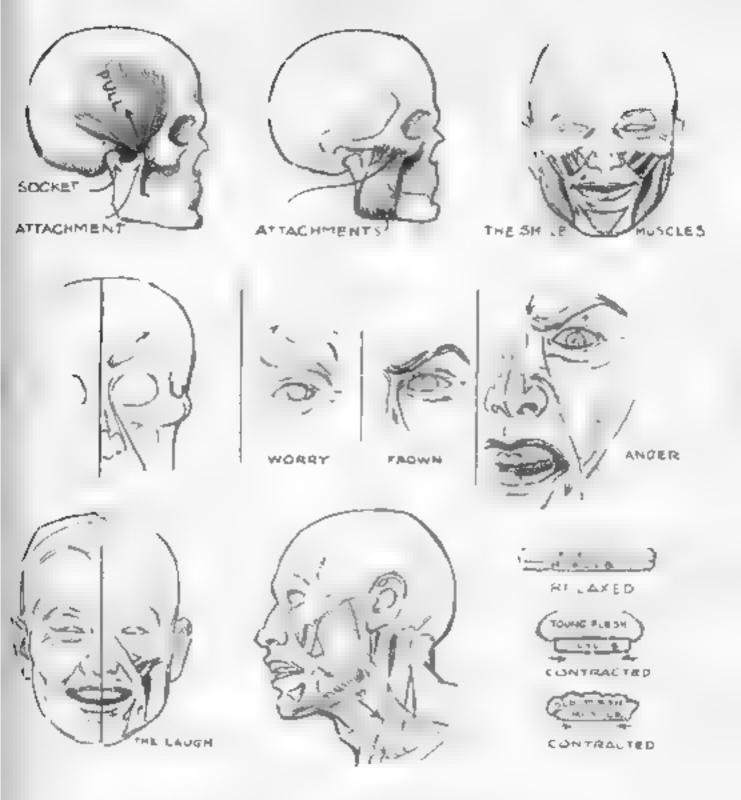


PLATE 21 How the muscles function

The drawings here, though not very pleasant are important to the artist if he intends to give his characters expression. The smale is most important in commercial art and advertising. In illustrating fiction you may have to draw an angry face occasionally but the great majority of the faces you will draw are pleasant ones. However, it is much easier to draw a "dead pan" face than a very happy one. What we want to do is to keep the face that should reflect happiness from appearing as dead-pan or even learing. So study this page well.



PLATE 22 The muscles from various angles

After you have learned the muscles of the head, try placing them within the head in various poses. Tip and turn the head and line up the muscles to balance on each side of the middle line of the face. You will be surprised to see how easily they will begin to fall into place within the construction plan you have already learned.

WHY YOU NEED ANATOMY TO DRAW HEADS

Only a few artists seem to have more than a hazy idea of the anatomy of the head, or of how the muscles function. If faces were expression less we might manage with only a little of this knowledge. It is argued that we can depend upon photographs for expression. Frankly many artists on just that My contention is that one can learn the necessary principles of anatomy in two or three short periods of study say three even ags. When so attle effort is required, why not spend it to learn something that will always be valuable to you.

Every expression is entirely dependent upon a very few it useles lying ander and embedded within the flesh. Knowing where the muscles be and what they do is the difference between guesswork and knowledge. An expression must carry conviction, and its easier to convince when you know the facts you are dealing with.

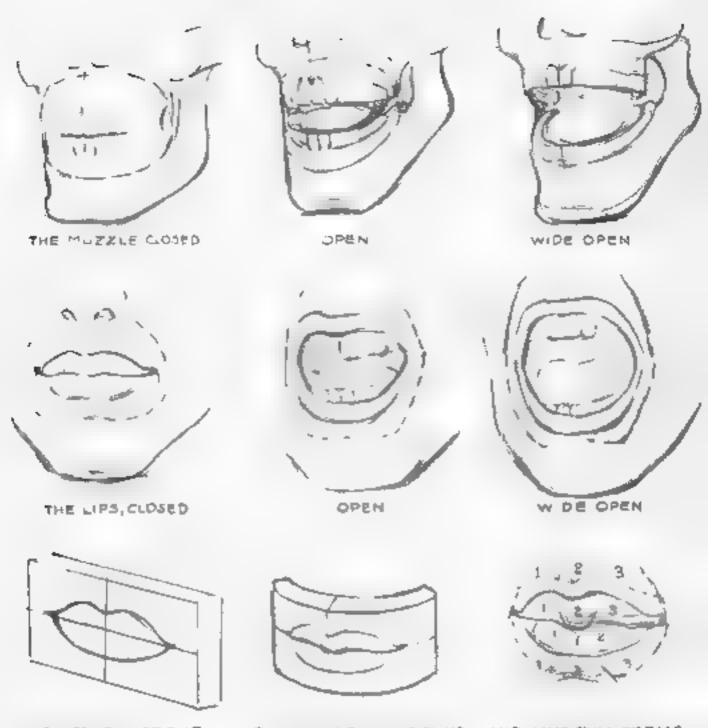
For many years I seemed to have great difficulty in drawing smiles. I had taken it for granted that the sin le creases began at the nostrils and ran strught to the corners of the lips. Actually the smile creases run well outside of the corners of the month and around them and point for a little way toward the side of the eb a. This is because the lips he in an ovalshaped sheet of muscle and the creases form at the outer edges of this muscle. The small ribbonke muscles which lead down from the cheekbones are attached to this sheet of muscle at the or ter edge and cause the smile creases. In some so iles the pull of these lattle muscles actually causes the corners of the mouth to round out rather than to end in a sharp point. For some reason I had not grasped this in my early studies. The expenence proved the value of going back to the source when you are in trouble.

One thing that is important in the smile is the way folds of flesh appear under the eves. Sometimes these add a good dear of mirth to a smile, sometimes they do not. I cannot tell you why

Some faces have this characteristic to a pronounced degree, while in other faces it, a hardly evident. The difficulty is to make the folds appear natural and a part of the smile rather than to have them look like pouches under the eyes. These foids are easier to paint than to draw because in painting they may be rendered in light values, but in a drawing we are assauly using a black medium, and the folds get too black. The same is true of the wrinkles that show at the outer corners of the eves in a single. If these are too black, they look like crow's feet Many smiles are sponed because the lines around the nostrils are too heavy and black, suggesting a speer more than a smile, or making the face look as if it were smelling something unpreasant

Another valuable hint about the unile is that it shows more of the upper teeth than of the lower ones. That means both a greater number of teeth, and more area of the teeth themselves. The corners of the lips are pulled away from the teeth, causing a hole or dark accent within the corners of the lips. The teeth should never runright into the corners as if they were pressed against the lips all the way around. The pull of the muscles stretches and flattens the aps, but the inward curve of the teeth is still there and becomes even more evident because of the shadows east inwardly by the lips at the corners There should be some ton ug down of the teeth as they go back. The two front upper teeth are the ones to highlight. It is better not to try to model the teeth too much, or to draw lines between them. This again is because almost any line may be too black. The lines between the teeth are really very subtle and descate. Often the teeth should be suggested rather than drawn in detail-unless you are selling toothpaste. Anders Zom was a master at painting teeth in a smile

Plate 23 shows the mechanics of the mouth. At the top are the bones without the flesh. We must always remember that the upper jaw is



THE L PS ARE NOT FLAT

BUT WE NAROUNDED PLANE AND HAVE FULL FORMS.

PLATE 23. Mechanics of the mouth

The lips and jaw can hardly be drawn convincingly without an understanding of the muzzle and how it works. Beginners draw the mouth as if it lay on a flat plane. The curve of the teeth in the rounded jaw must be considered, and the fullness of the lips themselves must be felt.

fixed in its relationship to the rest of the face and all the movement takes place in the lower jaw. The curve of the upper teeth remains unchanged and is affected only by the viewpoint. The dropping of the lower jaw may add as much as two inches to the length of the face. When the upper and lower teeth are separated be sure to compensate by dropping the chin proportionately. And, once again, always consider the roundness of the mazzie all around the lips.

Place 24 gives you a real look at the eyes. We are too likely to think of the eye as something round the ms on something white (the eye-Urt I we analyze the structure we are not conscious of how much the fids are affected by the roundness of the eyebal. The reason is that we see or ly a little more than a quarter of the eyehall between the ads. But the curve of the evelsall is very evident from corner to corner of the hids. An eye without hids is, of course a gruesome a ght, but we must make these lids seem to lie on the rounded surface. The lists operate almost exactly like the Lps. Except in the front view of the face the drawing of one eve is never an exact duplicate of the drawing of the other. When the tris of one eye is at the inner corner that of the other is at the outer corner. There is a slight builge of the lens of the eye which travels around under the upper lid. Think of the eyes as two balls working together or a stick. As you have the stick you also turn the eyes. Think of the lids as the covers over he two balls, in principle like the drawing in the lower right-hand corner of Plate 24. Draw many eyes, first separately, then an pairs, Chp. out some pictures of eyes and copy them.

In studying the mouths shown in Plate 25, consider the lips and teeth separately for the time being. Try drawing these mouths, and also get a mirror and draw your own mouth. Move the lips. Tilt your head at various angles. Notice that the teeth are more or less indicated, not by mes between them, but by the gums above and the accents of the dark area below. It is very easy to overemphasize the detail in teeth, so that

they do not seem to stay within the mouth Overemphasized teeth can spoil an otherwise good head.

Noses and ears are shown in Plate 26. Noses and ears are affected by viewpoint and perspective as much as lips are. In other words, these all look the way they do because of the angle from which you see them You can see why it is so emportant to establish the viewpoint of the whole head, before we can draw any of these features. When drawing from life it is most traportant that the pose of the head has not been changed between the drawing of separate features, since that will throw the drawing off completely. A mose must sit within the construction lines of the whole head and over the middle line or it samply will not look right. The nose and ear should be d awn together, so that their relationship is established. The car looks very different from the front, aide view or back. See that the nose is at right angles to the line of the eyes and brows. When the brows up, the nose tips; in fact, everything in the face tips

Plate 27 gives some examples of laughing and uniling faces. Though these are restricted to line alone you can fee the muscles operating in the flesh. What I call the sharp-cornered sindle it shown on the fellow in the upper right-hand corner. The faces in the middle of the top and bottom rows have a round-cornered lingh. This must come from the subject. For a round corner badly drawn can easily become a seer. Since require much study. You can learn a lot with your mirror.

In Plate 26 there are some examples of other expressions, which may give you some idea of how the muscles of the face operate in expressions that are not smiles. The action of the lips can vary a great deal. The basis of most expressions is usually in the month. For expressions in cartoons, the cartoonist keeps a mortor handy, since he can assume the expressions he wants more easily than he can explain it to a model.

In using the murror look for the action of the muscles only you need not even attempt a like-

DRAWING THE HEAD AND HANDS

ness of yourself. The muror gives the artist one big break—he always has a head and hands available to draw from. With two mirrors set properly he can get a side view or a three-quarter view, or make the left hand appear as the right and vice versa.

With expressions, it certainly does no harm to take photographs of a lot of different ones. You can take pictures of your face in the mirror and thus stock up on various expressions for your files I do not like to see an artist make a crutch of his comera for I will always maintain that a man can get more into a drawing of his own than any tracing, pantograph, photostat, or projection can give Photographs have certain distortions that always get into a drawing made from one, unless it is a freehand drawing, and sometimes even their I think these distortions come from the fact that we see with two eyes,

while the camera has only one. The distance of the camera from the subject also has a lot to do with it. Trace a photograph and you will see these things for yourself. Your artistry seems to go out the window no matter how you try to climinate that photographic look.

Various types and different expressions are illustrated in Plate 29. I have taken considerable liberty in creating both. It is good training to develop a type, then make several drawings of him showing different expressions. Make him smile frown, pout, laugh, worry or whatever else you can It is really lots of fun, and all the time you are increasing your slock in trade.

In Plate 30 the face has been analyzed to show the structural reasons for the various lines and bumps. When you understand these you can apply your knowledge to drawing faces of people of different ages, as Plate 31 shows

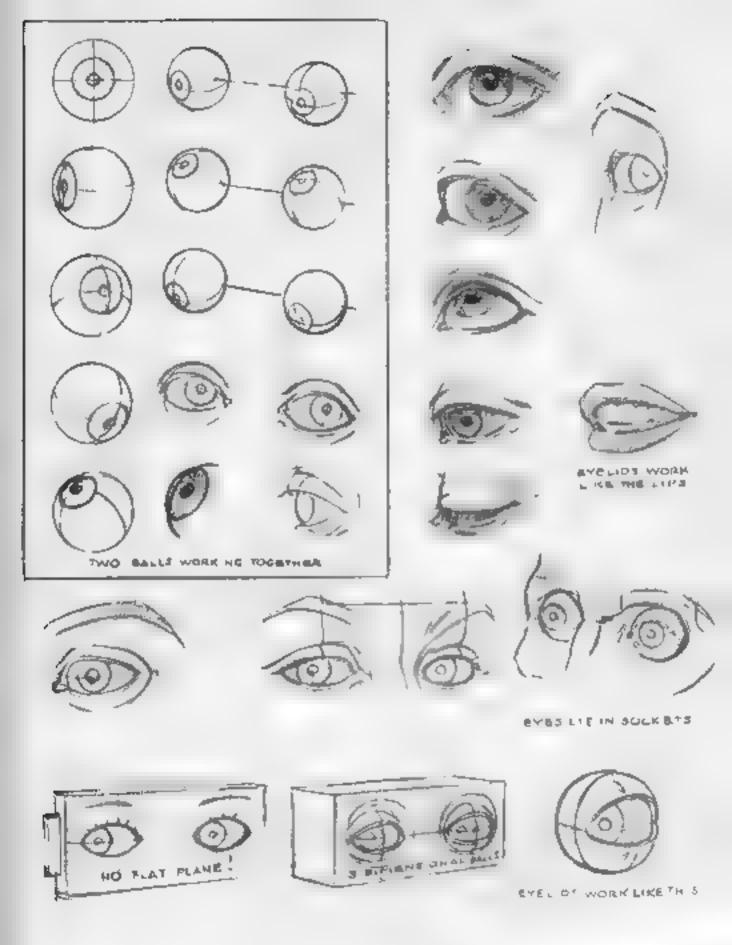


PLATE 24 Mechanics of the eyes

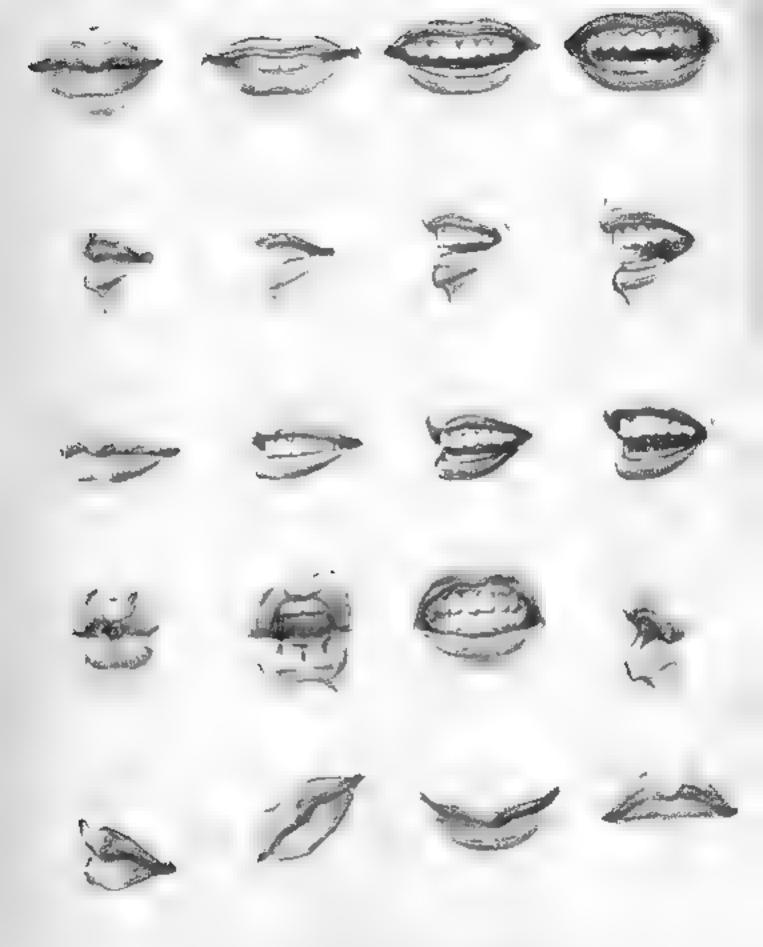


PLATE 25. Movement of the lips 54



PLATE 26 Construction of the nose and the ears

The appearance of the nose and of the ears is affected by the point of view from which they are drawn. The real problem is much more one of setting them into the construction of the head in their correct positions than one of drawing the actual details themselves. Noses and ears vary widely in shape but not a great deal in basic construction. The nostrils should be set evenly on the line running from the base of the nose to the base of the ear. It is good practice to draw noses and ears from every angle until you are completely tamiliar with their placement in any pose of the head.

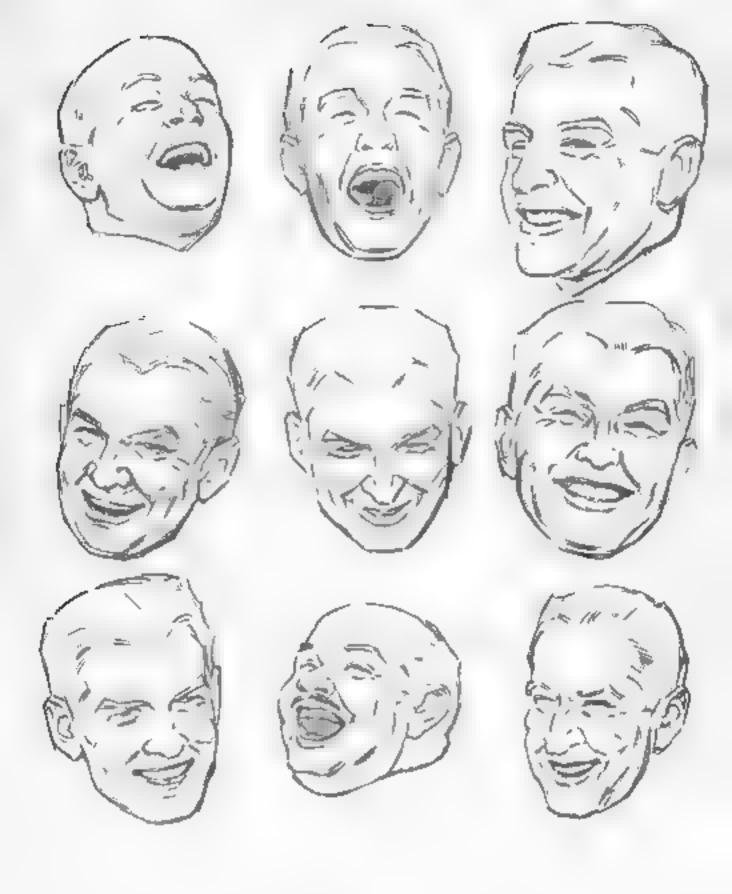


PLATE 27. Expression—the laugh

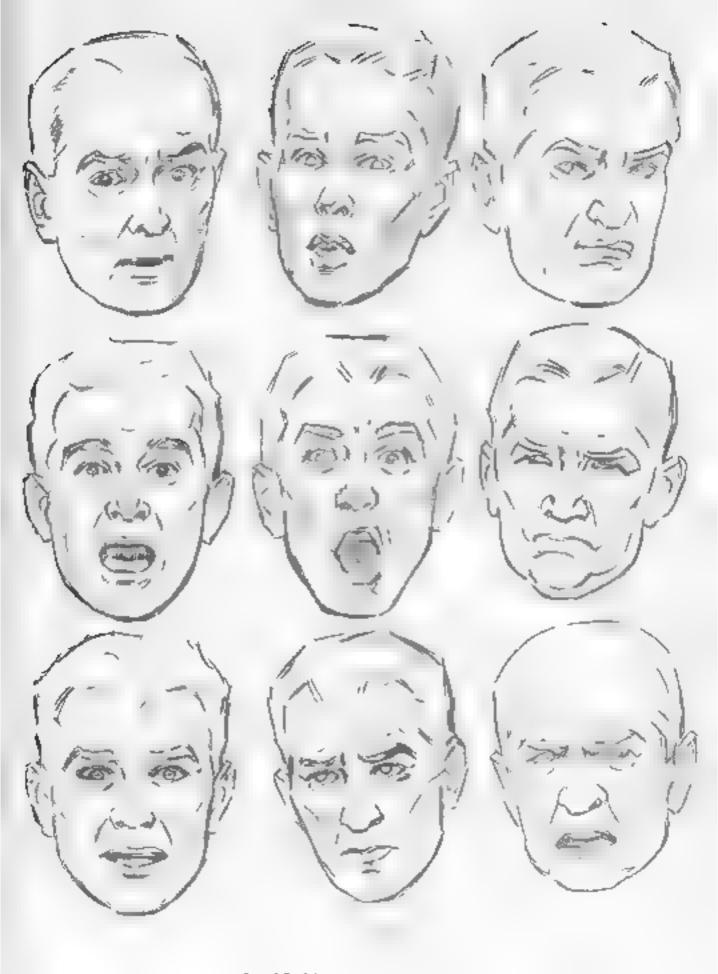


PLATE 28. Verious expressions

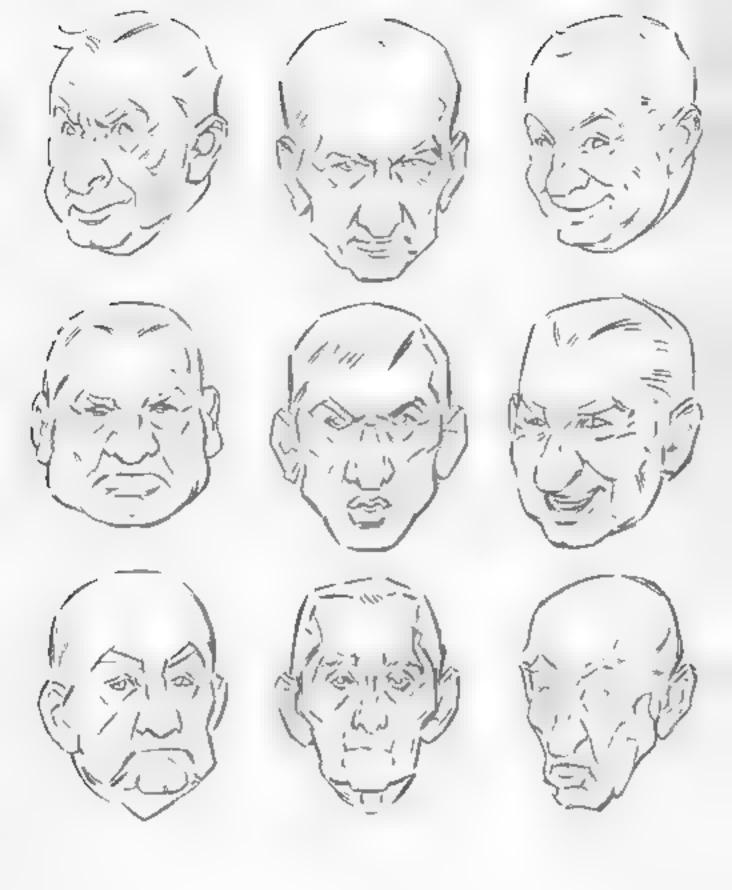


PLATE 29. Characterization through expression

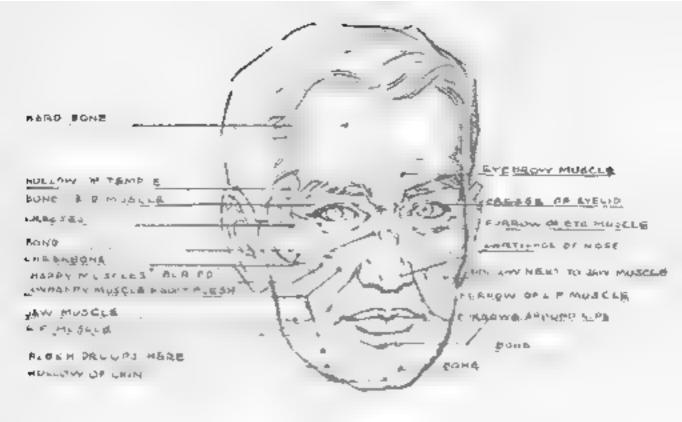


PLATE 30. Analysis of facial markings

It is not difficult to memorize the use, shape and placement of the moscles of the face. If you do this, you will thereafter always be able to identify the fines, humps, and bumps in the face. Older people are better than young ones as sources for this information, since the older one gets the more anes and wrinkles develop. We can learn to separate the small wrinkles from the facial lines. The small wrinkles are associated with the edges of the muscles whereas the lines are associated with the edges of the muscles themselves. The small wrinkles of the flesh are seldom drawn or pointed since they eventually make a network of wrinkles over the whole face. More important are the forms, and the large creases or lines between them. These are the long creases of the checks, those around the mouth, and those over and under the eyes. The muscles are quite pronounced in the male head. When we speak of a strong face, we are speaking mainly of muscle and hone structure.

Only in expressions with raised evelvows need we worry about wrinkles in the forehead. We can safely leave out most of the wrinkles most of the time and concentrate mainly on the lines, the bones, and the soft forms of the flesh beneath the surface. It is a safe bet that the more wrinkles you eliminate, the better your drawing will be taked. Remember that wrinkles are never black lines on the actual face, but very delicate lines of shadow which can be seen only a few feet away. That is why we can so easily eliminate them and still get a likeness. The deeper creases are evident for some distance, as are the shadows of the planes of the head. Never draw a face as a map or network of wrinkles.

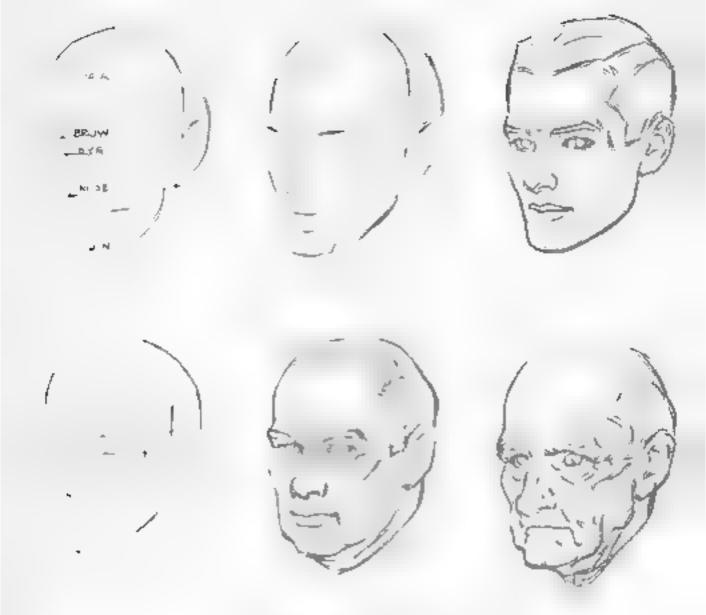


PLATE 31 Drawing faces of different ages

You can easily learn to age a face by adding the forms of the emaciating muscles and the creases that fall between them. The checkbones, the corners of the jaw and the hone of the chin become more evident in the aging process. The cartilages of the nose and cars seem to get larger as we get older. The chief change takes place in the cheeks and around the eyes and mouth. The flesh sags at the sides of the chin and along the sides of the jaw. Pouches form under the eyes, and deeper anes at the corners of the eyes. The lips tend to get thinner and move inward, so that more of a straight line between the lips is produced. The lines develop from the corners of the mouth down around the sides of the chin. The flesh above the eyelids droops and the brows seem to drop inward toward the bridge of the nose. A few deeper lines develop across the forehead and between the brows. These can be subordinated, to avoid overemphasizing them. The hair, of course, thins out an varying degrees, so that the hairline moves up and back and there is considerable thinning of the hair at the top of the head. However, we draw the head from the same basic construction.

TONE

When we go from line into tone we take a very large step, for tone is the effect of light on form. Although drawing need not carry all the subtlety of tone that pariting does still we must consider values as more or less related. It is better at first to light your subject strong y or enouse a subject that is more or less in simple light and shadow. Shadows are really shapes to draw shapes that occur over the surface of the form, so that we must consider both, the shape of the form size t and the shape of the shadow on it. Therefore keep the lights and shadows as simple as possible. Ifold the light down to one source to begin with. Later on you may want to introduce some back, ghing, but never have both lights shain g on the same area. This ereates a falsity of lighting und therefore falselooking form, for form rearly exists only as lightbustone and stadow define it. If the light were not there, we would see no form.

In very diffuser, light og we see form much the way we represe to a month or or ly. If light is coming from all directions the form Batteni out because form furning away from the light source is what makes halftone shadow and east shadow By east shadow we mean that the shadow has continued to another plane like the wall, or down across the neck under the chin. Cust shadows have edges of their own, which depend on the direction from which the light is coming. The difference lies in the fact that in ordinary shadow the form has simply turned so far that the right can no longer reach it. On a round form there is halftone before we reach the shadow, and the halftone merges with the shadow. On a square or angular form the shadow sharply follows the edge which ents off the .ght. or around which the light cannot reach. The nose easts a shadow in a bright aight the cheeks, being rounder and more gradual as a curve, blend the shadow with the light

This very blending of light into shadow may

and a bad one If the edge of the shadow is graduated or blended too much with the light the drawing loses character if it is not blended enough the drawing may become hard and bitt the A good way to hadge is to ask yourself. Am I boiding evidence of the plane or have I lost it? If you have softened the edge so much as to have lost the plane, the drawing is bound to take on a smooth photographic look. For this reason, planes have to be esta dished when you are drawing from a photograph is see they are not apparent in the photograph itself.

In drawing planes, we can do much to suggest the direction of the place by the correction of line without much coarge in values, see Plate 34. For this reason is drawing on be made to appear very solid where it wasts drawing or painting must lose much of the claracter. This is a principle which is used effectively in pen drawing that of toaking the strokes follow the direction of the plane. It can be used to other mediums that are not areas of flat tone.

I hope the reader will give particular aftertion to Plate 33 since I consider this page one of the most important in the book. The drawings here encompass practically a little material of fered up so far in this book. Here we have the plan of construction, the anatones, the planes, and the fanished rendering combined to a single pose of an individual head.

In addition to studying this page carefully, find some material of your own. See if you can render in separate drawings what you believe must be the correct proportions anatomy and planes of the particular head. You will learn more by doing this than by copying a hundred heads as they appear in your copy material. It will definitely point up anything tacking in your knowledge thus far. When you have, to your satisfaction, worked out the several stages, paste them on a sheet and hang them up in the place.

DRAWING THE HEAD AND HANDS

where you work as a constant reminder. If you have worked them out consinerally you can well take pride in the fact. They will be of interest to anyone for through them you have stated your knowledge in no uncertain manner. They serve to be plyou memorize the quadries which should go into a well drawn head, but which, of course, could not be incorporated into a single drawing with each stage in evidence in the floished drawing. I believe you will leel this background of effort which I hope will convince you that drawing heads is more than mere copyling.

Frates 35 through 39 may help you in the matter of technical renders gathough it is my technic that technique should be left very much to the student timeself. The problems of proportion, inatomy and planes are busically the same for all of us, but technical solutions of those problems are to a large extent, an individual latter.

Unfortunately the stude toy usually unable

to see many good examples of head drawings. because so few are published. In the past decade there have been few men in the field good enough to have their drawings published regularly, aside from the fact that make artists ability to draw the head is concealed by their use of mediums. I would like to call attention to the work of William Oberhardt, who stands almost alone in drawing the head. I hope the reader may at some time come across a few of the many drawings of his that have appeared to publications. The schools in England seem to have produced many more fine examples of head-drawing than those in America have I think this is because the young American artist tends to turn to photographs for material before he has any real knowledge of the head. The drawings in this book are offered himbly, since there are many druttsmer whose skill exceeds mine but because of the lack of helpfal books on the subject. I so not a whatever I have to offer hopefully.

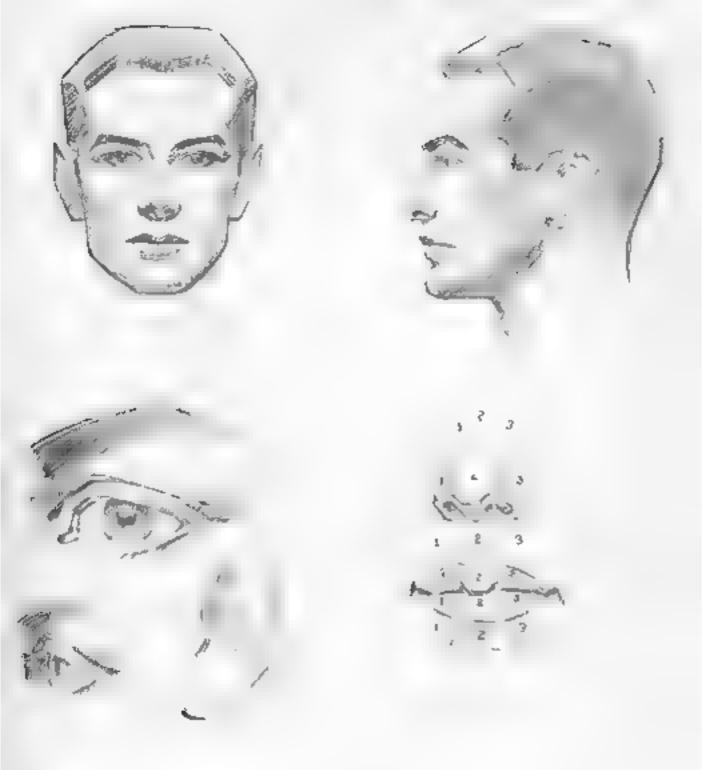


PLATE 32. Modeling the planes

As a basis for learning to show light on form, turn to Plate 9 and make a drawing of the planes of the head as shown there. It will help you a great deal with the material to follow. Let us understand that we can depict solid form only as it appears to light, halftone, and shadow. The shadows get darker as the form turns away from the light. A single light is always simple to draw, for more than one light cuts up the shadow tones, making everything more complicated. Think now in terms of flat areas in varying tones and forget surface wrinkes enturely.

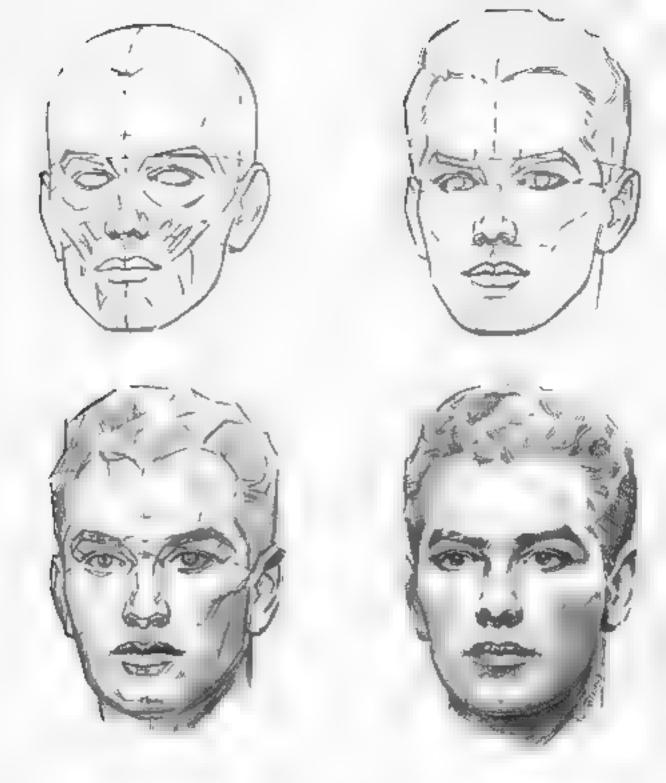


PLATE 33 Combining anatomy, construction, and planes

This page is one of the most important in the book since it shows the stages of drawing a head from the anatomy and construction, through the outline, to the planes and the final completion of the drawing. It would be impossible to follow without considerable study of the preceding information, not in order to copy this head, but to draw one yourself. Study this page carefully you will find it invaluable for reference



PLATE 34 Building tone with planes

This page shows how the planes may be treated as straight flat surfaces, each currying its own value between aght and dark. The very light planes should have very little tone and be treated very delicately. By directing the stroke, you can make the plane turn without changing the value more than slightly. You get more solidity if you make all the planes in the light a little lighter than they appear and those in the shadow a little darker.

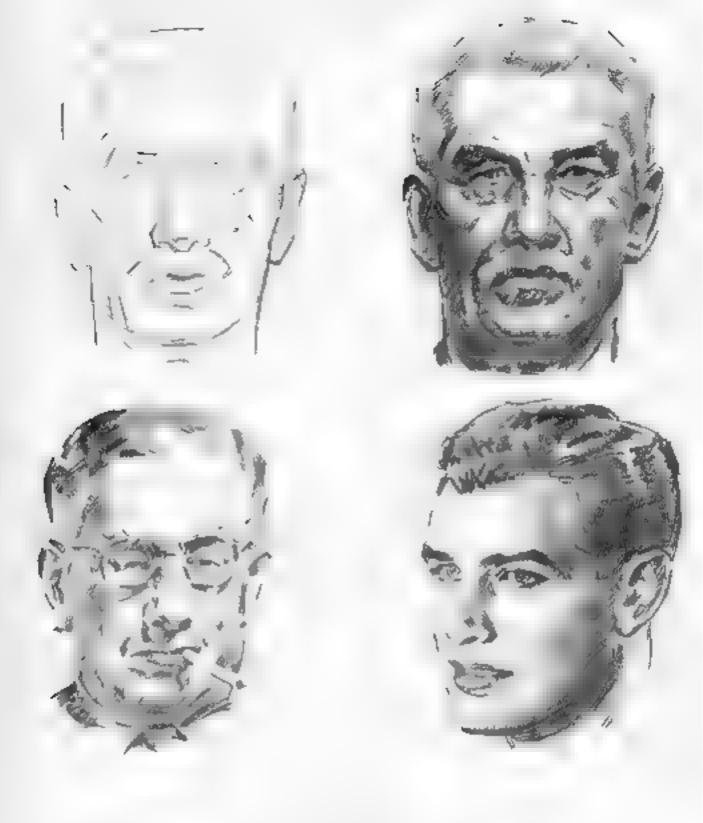


PLATE 35. Every head is a separate problem

Every head is an individual assemblage of shapes, lines and spaces Because of the variations of shulls and features together with variations of spacing, milhous of combinations occur. Forget every other face and concentrate on the one you are drawing. Accent the individual forms wherever you can. Start drawing real people and collect chippings and photographs to practice from Don't be tempted to trace just draw.

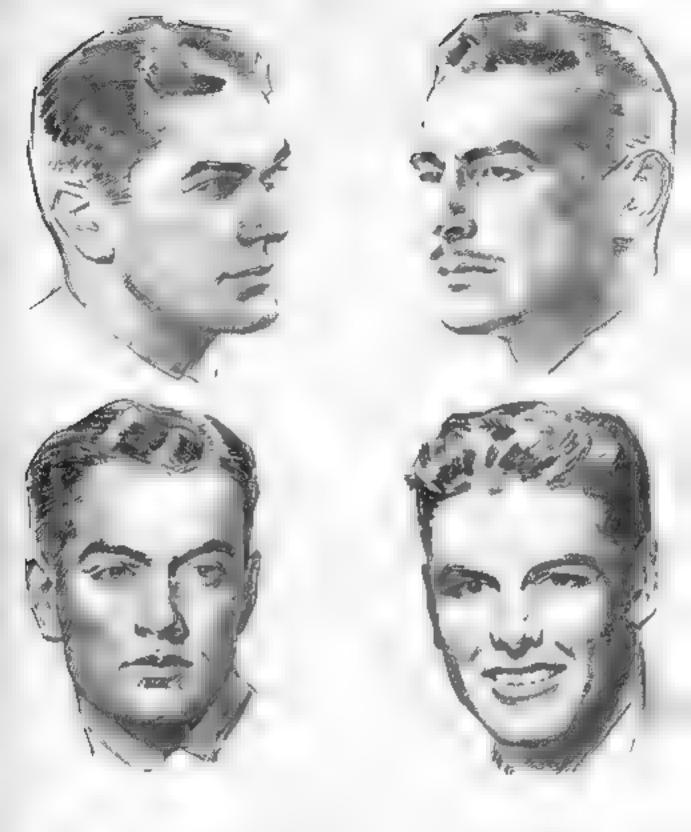


PLATE 36. Types of character

The character in a head is the result of the individual bones and muscles, as they are shown by careful construction and spacing. But the beauty of a drawing will always be in the way you use line and tone and the interpretation of light and shadow on the forms. You may experiment in your own way and develop your own approach and technique. Sometimes an unfanished study is more attractive than the completely executed drawing

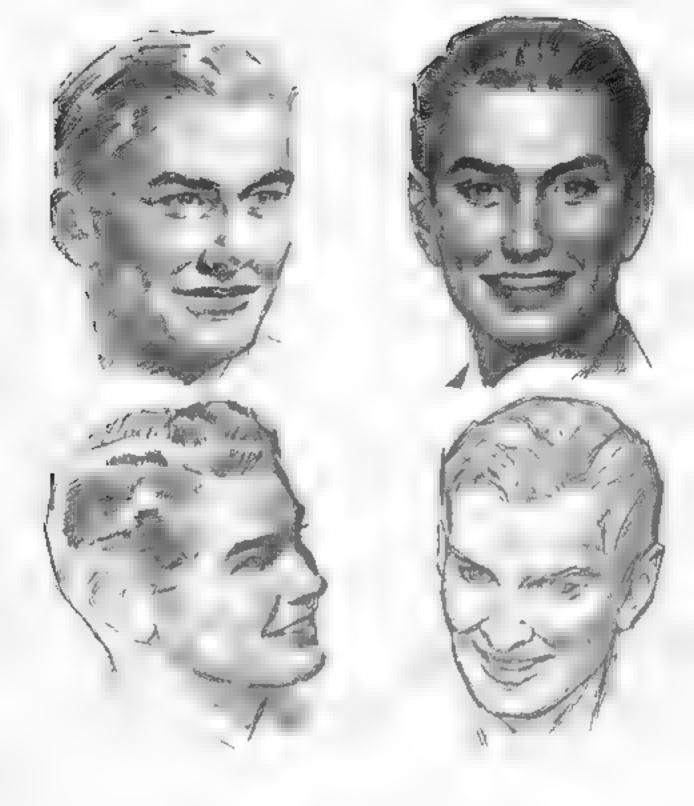


PLATE 37, Smiling mon

Smiles that radiate happeness are difficult for any artist. They are much easter to render in an outline drawing than a tonal drawing. If your drawing of heads must provide an income you will do well to practice drawing smiles from chippings, since a model can rarely hold a genuine smile for very long. Study particularly the forms around the corners of the mouth, and the forms of the cheeks.









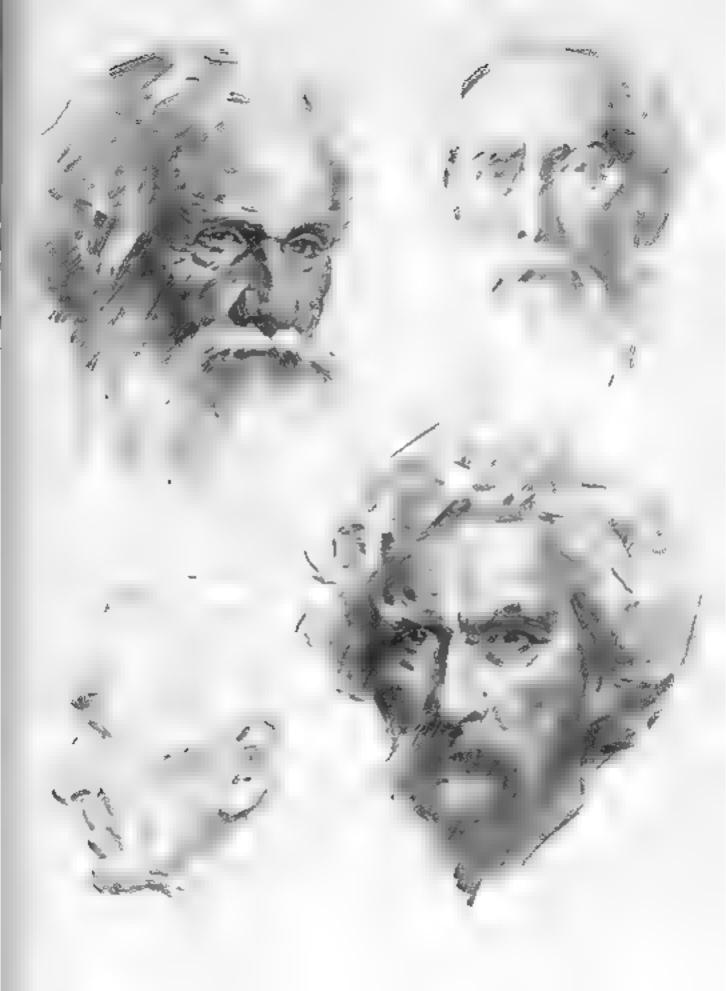
PLATE 38. Older men

The faces of older men give the artist more to "get hold of" in the way of forms and lines. Note however that in the faces on this page most of the surface wrinkles have been eliminated and only the main lines and forms stated. The impression of age is maintained without the incidental and insignificant wrinkles.



PLATE 39 Characterization

Here construction, lighting, and expression are combined. This is characterization, the way a face looks at a given moment. Expression is really no more than a distortion of the relaxed forms of the face. Such distortion causes movement in the muscles below and consequent change on the surface. Therefore it is important to know how those muscles move, see Plate 21).





Part Two: Women's Heads

Part Two: Women's Heads

In AMERICAN ADVERTISING and magazine illustration the ability to draw women's heads effectively is the greatest boon to the pocketbook While commercial art has many departments, no other is quite so lucrative. This skill opens the door of advertising agencies emitorial offices, and calendar producers as nothing else can. Portrait drawings are much easier to sell than finished paintings, since the price is much lower. Draw ings, nicely framed, can be hing anywhere in the house while painted portraits are more or less restricted to the space over the Lying room mande piece. A man often prefers a nicely done drawing of himself or his wife or children to an elaborate painting Fortunately the artist can make such drawings arexpensively, in much less time than a painting takes and he can well afford to keep his price within the normal family budget. There are possibilities at postrait draw ing which should not be overlooked. It is pleasunt work. It can be part-time work, and it is remonerative. If you do studies for one family others become interested. Such studies make at tractive pictures for dens, halls, offices, and other places where furnishings are not elaborate There is haraly a mother who would not like to have sketches of her children. There are many artists in this country already doing very well at making portrait drawings. The prices usually range from \$50 to \$150 and even higher which is not too bad for a few hours' work. These sketches may even be done from camera studies with the personal abiaty and knowledge added to the photographic appearance.

When you are drawing women's heads, be sure to use freedom and iooseness of technique o representing the hair. Usually simple planes are much more effective than the photographic representation of every strand or curl. Another important quality, which I have pointed out earlier, is a blocky effect. The camera sees

everything in its roundness the artist sees its rhythms and its angles.

For some reason a little masculinity is much more tolerable in a woman's hear, than roundness and feminimity is no a man's. The fushion experts seem to pick the lean-faced, angular-jawed, and bony types of models oftener than the purely feminine types. It may be that to get the rest of the figure sum enough to go on a fashion page a bony face is required. Somehow the appearance of bone in the face does seem to give more character to a woman, just as it does to a man. Perhaps most of us admire leanness more than plumpness because leanness is hard to attain and keep. At least in that we have changed since the days of the old musters.

All this means that in drawing women we still must be conscious of planes, even if we do not stress them as much as we do no drawing men. Plate 42 shows a man a head contrasted with a woman's head in the same pose. Note that the feeling of planes is evident in both, but more stressed as the man's head. Note also that the handling of the month and nose is more delicate in the drawing of the woman than in that of the man. If I do nothing else here I want to impress on you that smoothness and rounguess are basically associated with the female, and squareness or angularity with the male. The degree to which you emphasize the one or the other in either case is determined by personal feeling about your subject. Plate 44 demonstrates how blockiness may be applied to women a beads.

Plates 45 and 46 are technical examples of women's heads which you may find of some interest. Plates 47 and 48 are sketches in which both roundness and squareness have been felt. I suggest that you make a great many sketches of this kind from life and from the wealth of material provided in magazines.

DRAWING THE HEAD AND HANDS

Plates 49 and 50 deal with the characteristics of aging. Drawings of electly women are the one place where tat seems permissible Every one loves a plump grandma.

It is no drawing older women that your knowledge of anatomy is most evident. Younger women strive to keep the anatomy of the face prefty well covered up, and we please them most by doing the same in drawings. But sooner or later wrinkles and creases will come. We can subordinate the wrinkles, but we must take the forms very much into consideration. New forms have developed in the cheeks, indications of the way the imiscles are attached in and under the flesh have begun to show through. Bone comes to the surface, for it is no longer so finally covered by flesh. Pockets form between the imis-

cles for the same reason. Soft flesh stands out in little lumps and begins to drape somewhat toward the chin. We can be kind about it and not put too much emphasis on the aging process, but to ignore it entirely would be to lose both character and likeness. There is beauty in maturity and even in old age. By then character shines through, and there is no graciousness and charm greater than that of an elderly woman of character who has put away most of the foibles and trivolities of youth. Be kind in your drawings, but do not fabricate. Insincere work does personal harm to your reputation, and that is more important to you that, any single drawing of any face in the world. Study the aging process, be thoroughly familiar with what happens. and then treat it tenderly

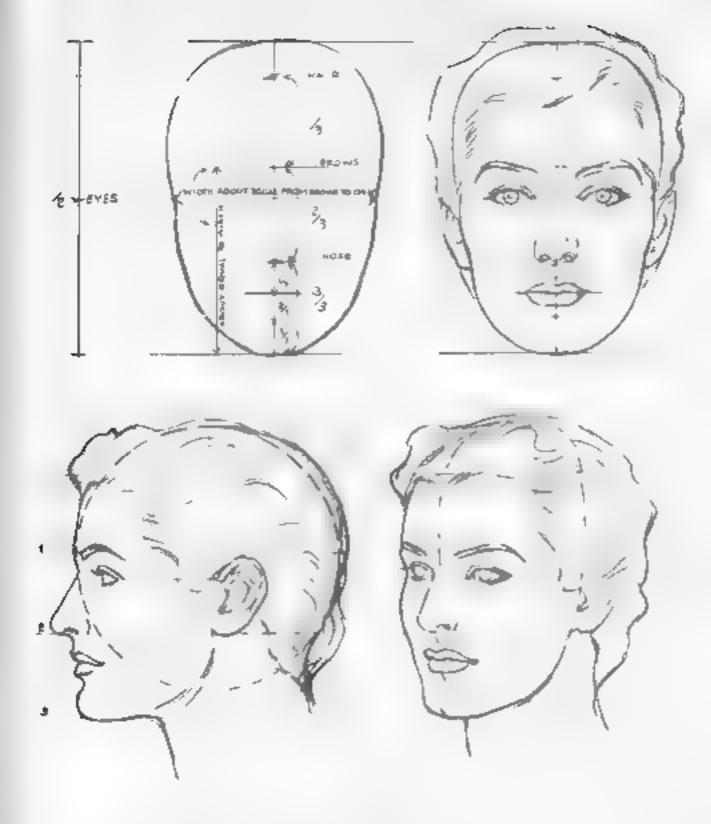


PLATE 40 Constructing the female head

The over-all proportions of the female head vary only slightly from those of the male head, but the hone and muscle structure is lighter and less prominent. In commercial art terminine types with rather firm paws seem to have more appeal than do the very rounded. Women's evebrous are usually a little higher above the eves than men's are. The mouth is smaller the lips are more full and rounded, and the eves slightly larger. Do not stress the jaw and cheek muscles.

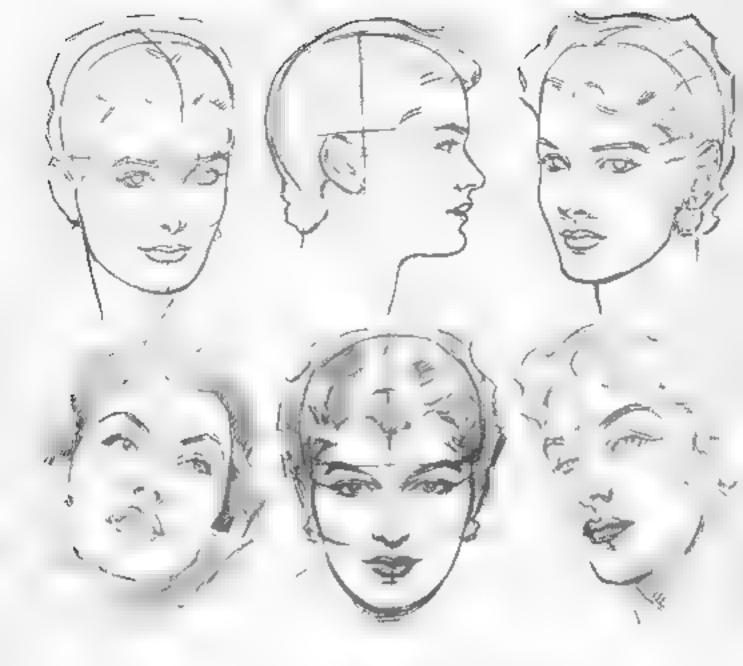


PLATE 41 Establish the construction of each head

It is almost impossible to draw a beautiful woman unless the construction and placement of features are accurate keep the nostrils small and watch carefully the placement of the jaw and ears. The eyes and mouth must be in perfect placement and drawing to avoid some very strange and ampleasant results. Just now the brows are left fairly thick. A few years back they were just a thin line. Personally, I like natural-looking brows, but brows and tips, since they are so often made up, follow the trends of fashion. The same is true of hair-dos. Look for the mass effect of forms in the hair rather than the detail. Beauty of face is beauty of proportion, so learn the proportions first, then study your subject individually. The fashion magazines contain quantities of material for study and wall also keep you up to date on make-up and hair styles. Be careful not to draw flat hips. Place the highlight on the lip year accurately. I it is in the wrong place it can change the mouth and the whole expression.



PLATE 42 Bone and muscle are less apparent in women's heads

The underlying anatomy of a girl's head is shown at the top of the page. In drawing a fairly young woman, we let very little of the anatomy show on the surface though we must know what is understeath to make the surface convincing. At the bottom of the page a male and a female head are shown for direct comparison. Note the heavier bone and muscle construction and the more obvious planes in the male head.



PLATE 43. Charm lies in the basic drawing 80



PLATE 44 "Blockiness" also applies to women's heads



PLATE 45. Some girls' heads



PLATE 46 More girls' heads



PLATE 47. Sketches



PLATE 48. Sketches



PLATE 49. Grandmothers 88



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DENMANENT GREASES FORM

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Part Three: Babies' Heads

Part Three: Babies' Heads

Drawing babies is almost a branch of art in itself. Yet the illustrator and commercial artist may be called upon quite often to suchide them in his work. Babies also make particularly attractive pictures for framing, when they are well done, most families are delighted with them

If the haby head is understood, it is really no harder to draw than any other head, and sometimes not as hard. The reason is that the artist is dealing much more with construction and proportion than with anatomy. The skall is anportant as a ways, but the muscles are so deeply maden that they hard a affect the variace. As Plates 31 and 52 show the proportions are somewhat different from those in the adult head.

In the baby head the bone structure is not yet completely developed. The jawbone cheek bones, and the bridge of the nose are relatively much smaller. This makes the baby face smaller

proportion to the skirl, so that the face from the brows down, only occupies about one-quarter of the whole area of the head. The carblages of the nose are way are ad of the bone structure so the little nose usually turns up because the image above it is rounded and close to the plane of the face. The apper Lp is longer and the chiral being undeveloped, usually receives or in well under the lips.

Only the ris of the eye is farly developed, which makes the eyes appear large and button. They appear to be farther apart than the average adult's eyes because they rest in a smaller head. Eyes set too close together are unpleasant in a baby face and can spoil a drawing. A baby shead can best be studied when the baby is sleeping. Otherwise we must turn to photographs or magazine illustrations. Babies are bound to wriggle and there is nothing that we can do about it. It is therefore of great importance to fix the general or average proportions in your memory.

You will find that a certain blockiness of planes and edges also helps to put vitality into a drawing of a haby. Batties faces are so smooth and so round that if we copy that quality too meticulously the final effect may lack character.

If you are disturbed by seeing edges of planes in a drawing of a baby face it is probably because you are too close to your drawing. Step back before you change it Maude Tousey Fangel, one of the greatest taby artists, draws quite vigorously in angles and planes. Mary Cassatt, the Impressionist painter and student of Degas, also had this quality in her work.

Plate 53 shows that the general shape of the baby shead is a burge attached to a round buil. The distances up and down between the features are relatively short, and the face seems quite wide. The first build up of the basic shape should have that cute baby look.

In the sketches in Plate 54, the eves rest in the lower balf of the first quarter division. The top line is the line of the brows, the mose rests on the line of the second division, the corners of the lips on the third, and the chiral drops slightly below the line of the fourth division.

Plate 58 shows the four divisions for children three to four years old. Note that the brows are a little above the top line and the nose, eyes, and month have been raised above the div sign lines. These changes make the baby look slightly older Actually we have allowed a little more chin and thereby lengthened the face slightly Plates 55-56, and 57 show a number of buby heads, all drawn with the foregoing proportions but differing a little in character as a result of slight differences in the placement of features and the relationship of the face to the skull. Though the proportions vary only slightly balnes skulls may differ considerably in shape. We find high, low or elongated skulls in babies as well as in adults.

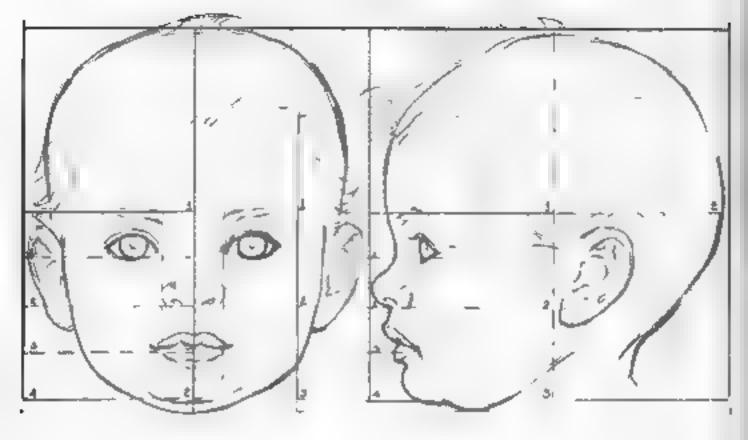


PLATE 51 Proportions of the boby head-first year

Changes in the infant shall take place very rapidly from the moment of birth through the first year or two It is in the infant stage that the shall takes shape. The original shape may be due to prenutal pressures and the degree of hardness of the bone. After birth the bone tends to adjust to the conditions imposed upon it the growth of the brain, the closing of the sections of the shall at the top of the cranium, which nature self open and prable to facilitate birth. Bacial shall types are inherited, but the individual type can be purely a matter of circumstance.

In the baby the cramom is much larger in proportion to the face than it is in the adult. The face to the brows occupies about one-fourth of the whole head. This sets the eves below the halfway point. The most convenient way to set up the baby face is in quarter points. The nose the corners of the mouth, and the chin come much closer to falling on these points.

As the baby head develops, the face gets longer in proportion to the cranium, which has the effect of moving the eves and brows upward in the head. Actually, the development of the lower jaw brings that downward and the nose and upper jaw also lengthen. As a result of these changes the eves of an adult and even of a feen ager are on the middle line of the head. It is most important to know this because the setting of the eves in relation to the middle line across the face is the direct way to establish the age of a child. The iris is fully developed in the haby and will never get any larger consequently the eves look much smaller in the adult face. However, the opening between the evelids does widen, so that we see more of the eveball in an adult than we do in a baby.



PLATE 52 Proportions of the boby head—second and third years

By the second and third year the eyes are about halfway up the top quarter space which I have designated the number I space. The nose and mouth also appear to have moved up, and the brows now appear to be above the halfway line. Now the lips just touch the bottom of the third space. The ear has not reached the halfway line. However, the face has reached the proportions of three spaces harding to brow brow to bot tom of nose, bottom of nose to bottom of char. Actually these three spaces are still condensed, and each will grow further. But they maintain their proportions to one another while growing. The ear is still well below the minute crossing. Note the line divided into thirds in the right half of the first drawing.

When drawing babies and children it seems easier to maintain four divisions than to use the three divisions of an adult face. White the actual head is much smaller, the spaces between the features are proportionately wider. The eyes are wider apart, the upper lip is longer, the space from eye to ear appears very wide. You have to struggle with these proportions in order to make a baby look like a baby and not take a little old baid man. The baby mouth is more pursed when relaxed. The upper lip tises sharply to its peak and usually protrudes. The chin is small and well under with often a little fat under it. Babies ears vary a great deal, some being quite small and others quite large. They are usually rounder and appear thicker in comparison to the face. Rabies brows are usually aight and then or even quite transporent. They are usually much more evident in dark haired children. The pose is usually small and upturned, and quite rounded. The bridge of the nose is facts round since it has not had I me to develop. The cheeks are extended and full.



PLATE 53 Construction of the boby head

In drawing a very young baby draw the ball and plane with the fueral plane much shorter. Put the brows on the halfway line. Divide the face from the brows down into four parts. The eyes touch the bottom time of the top division. The nose touches the bottom line of the second division. The corners of the month fall on the bottom line of the third division, and the chin drops slightly below the fourth or bottom division. The ear is under the halfway line.



PLATE 54 Sketches of babies



PLATE 55 Studies of babies

The magazines are full of baby pictures, and these are best to practice from, since no baby will hold still long enough for anyone who is not thoroughly familiar with baby proportions to draw from life. The best one can do is to make fast sketches. For this reason limited pictures of babies are usually drawn from photographs, as are the ones or this page.



PLATE 56. More studies of babies

As habites grow more hair they look older although the proportions have changed only slightly. Some habites develop song everashes, which with their already large and widely spaced eves, give a great deal of appeal. Go easy on the evebrows, keep them delicate.



PLATE 57 Some more studies of babies

Remember to keep the bridge of the nose low and concave and the two little round nostrils rather widely spaced. Let the upper up protrude when the baby is not simbing. Set the ears fairly low, and the chin round and well under. Keep the cheeks high and full. You will usually want to add light tone with a highlight.

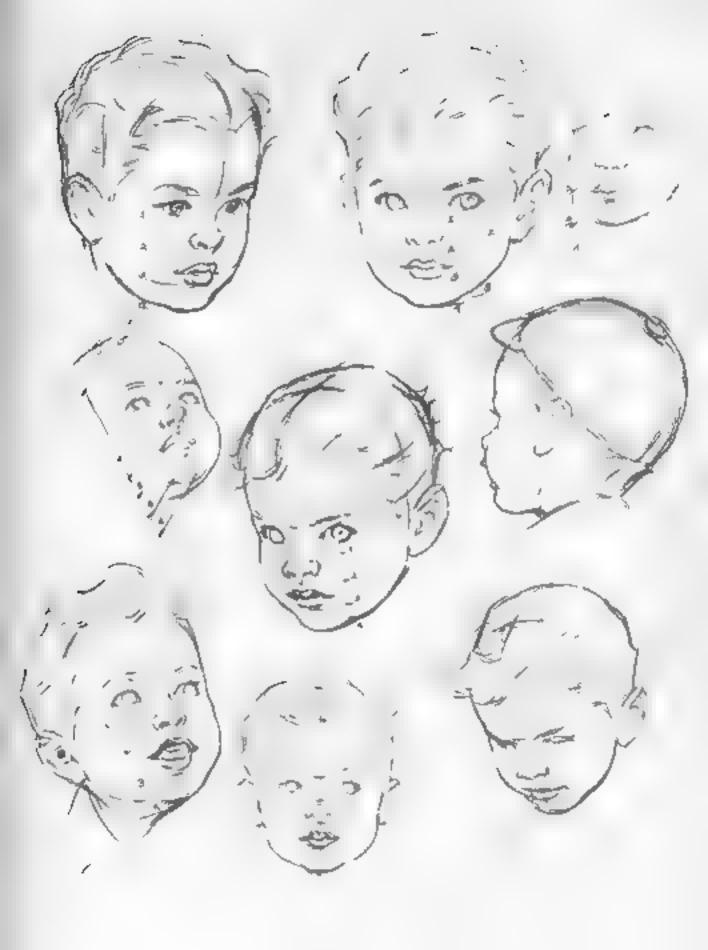


PLATE 58 The four divisions of the face—third and fourth years





Part Four: Heads of Boys and Girls

I. SMALL CHILDREN

Part Four: Heads of Boys and Girls

I. SMALL CHILDREN

LET US UNDERSTAND that no branch of art can be reduced completely to a formula without endangering the very art that must go into it. We do, of course, seek ways and means to an end. and that end is correctness. Art, however is not the justification of correctness. Art is not always. perfection. Let us say that art is truly a form of expression, and full expression cannot be limited by formula, but only guided toward greater meaning and truth African scurpture has expression and because of that it is art. It is certo by not truth as we know it but it may be truth with a greater meaning as they know it We may reach greater truth by simplification and even by subordinating importment. Detail may be panor truth but without real ngusticance. Each hair in an evebrow is detail and minor truth, but carries aftic sign beance, bach made of grass is detail, but we may be more nterested in the whole billside and the effect of sunlight on it.

It drawing children let us be guided as much by our feeding toward them as by rules of construction and anatomy. The light on a child's lastr may be just as beautiful and intriguing as the light or the hillside. The glist of mischief in the eye of a young boy may really be what we are drawing, more than the perfect anatomical construction of that eye.

It is easy to become so absorbed in technicalities that we miss the purpose. The technical must be united to the spiritual, because technique without spirit is meaningless. But feeling cannot be conveyed without technique and the knowledge behind technique.

Every area of every drawing, painting, or any other expression of form should be a part of a whole design. The lights and shadows the edges, the textures and materials may all be considered as much from the standpoint of design and arrangement as for any other quality. In drawing heads, the pattern of the hair the shadows cast from the head, and the bit of clothing all offer opportunity for design. The lights and shadows on the face itself create dring, good or bad, whether we are conscious of it or not. The whole head is a design of forms fitted to gether and it is a masterpiece of ites go, time-tionally as well as artistically

I speak of all this so that we may approach our subject with bandity and appreciation of its wonders. To me there is nothing more beautiful or wonderful to the world than the head of a small child. Life has left no sears, no these of anxiety and frustration of its the new flower emanating from the bud, fresh and as yet almost unloughed.

If children do not move you it is perhaps a mistake to try to draw them. You cannot draw them effectively from too great an emotional distance. When joy goes out of your work, it is apt to bog down in pure technicality.

It happens that much of my own work has been concerned with drawing children, and the more I do it the more I find to enjoy in it I feel that there is a mountain of fascinating truth of which I have barely scratched the surface, and this comes after drawing and pairting perhaps thousands of heads of adults. Drawing children has a vast and relatively inexploited commercial market. We need more drawings of children and fewer photographs, both in udvertising and on our walls. The fact that children cannot sit still need not discourage you. You can trace from photographs and still ruise the quality of your rendering beyond the purely photographic detail to a more artistic expression.

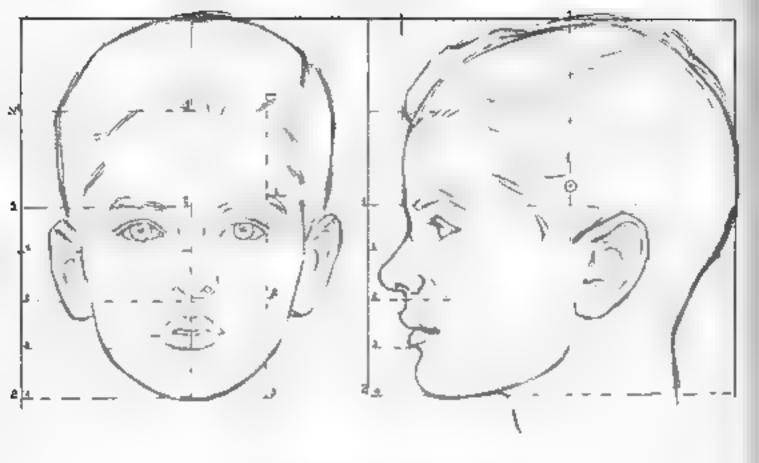


PLATE 59 Proportions of the little boy a head

In the small boy the up-and-down proportions are about the same as those in the order hatty. But now the face is relatively narrower coming well about the square in the front view. The eyes appear smaller because they do not grow and the face does. We can only use the large "button eyes for very young children. The jaw and chin of the boy pictured above have started to grow making the chin more prominent. The bridge of the nose is higher and the nose is a bitle longer almost touching the bottom of the second quarter. The lips touch the bottom line of the third quarter. At a fairly early age a full shock of hair grows. This accentuates the large cramium but keeps the face looking small and adds to the euteness of the child. If a child has curly hair mothers sometimes let the hair grow until it begins to look grotesque. So it is well to know where the gramium really is.

It is hard for little bors to sit still; in drawing them, as in drawing babies, practice from photographs and chippings. Note that the ear is coming up to the halfway line. Little boys heads seem to extend far back because the neck is small and the muscles which attach to the base of the skull are not yet developed.

Notice particularly that the nostrils have grown and the upper lip appears to be somewhat shorter. The car grows considerably during this period and the one which follows. I believe the ear is fully developed by the time the child is ten or twelve. The space from the nose to the ear still appears quite wide. Lashes are quite long. The hair grows quite well over the temples.



PLATE 60. Proportions of the little girl's head

The proportions of the bead are practically the same in little girls as in little boys. Little girls are characteristically wider at the eyes and the jaw and chin are rounder. Very often the crease of the upper lid hardly shows over the eye. All the lines of contour are usually rounder in girls. Knowing this helps you make a little face more feminise blocky or squarish forms give a little boy a more rugged took. In little girls the forehead tends to be higher at an earlier age than in boys. Some authorities claim that certain qualities of mentality develop faster in girls than in boys. This may account for the higher, wider forchead. I cannot say. I do know that a closer harrane makes a boy look more boyish, while a larger forchead makes a little girl look more girlish. The treatment of the hair helps greatly in drawing little girls.

Care should be taken not to draw the mouth too large on a little girl's face, or too btack. This can easily give an adult took or a theatrical effect not pleasant in children. The little girl's neck is round and small in proportion to the head. The crease between the neck and jaw seldom runs up to the ear but points below it. It is seldom sharply defined. The forchead may easily protrude a little at the top. The planes of the face are all well rounded, but to keep your drawing from looking too smooth and photographic, you can introduce a good deal of blockiness into the hair. The ear is more delicate in structure and it comes up to the half way line. The brows should also be kept delicate.

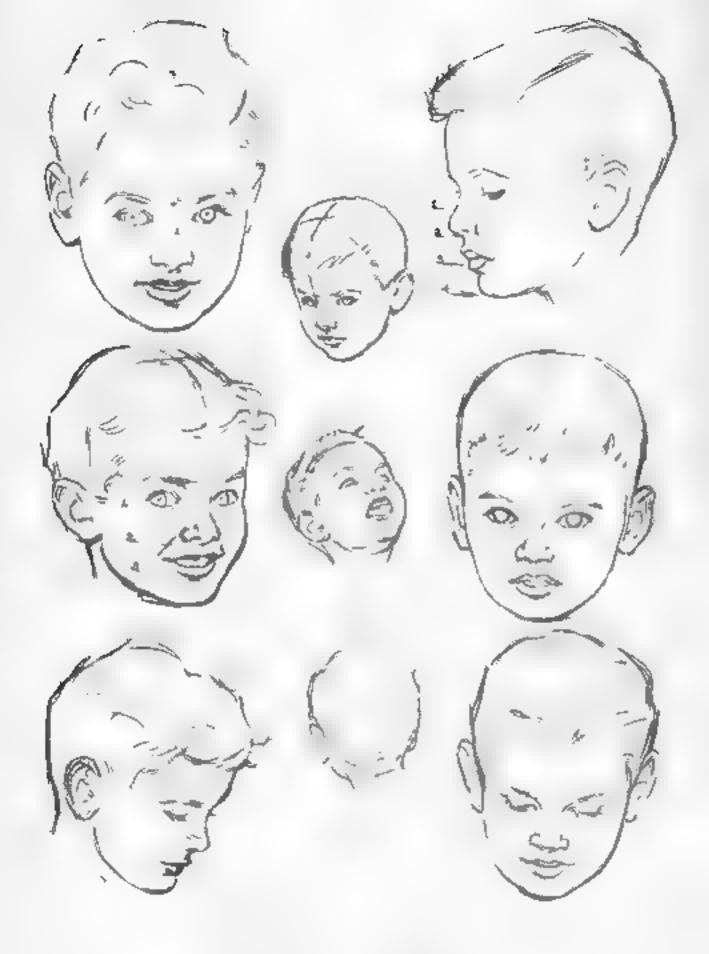


PLATE 61 Construction of the little boy's head



PLATE 62 Construction of the little girl's head 107



PLATE 63. Studies of little boys

Sometimes back lighting or rear top lighting is effective an combination with front aghting in drawing heads. The important thing is not to allow two lights to fall on the same surface, because this type of lighting cuts the area rato crisscross shadows. Build up the hair in blocky forms.



PLATE 64. Studies of little girls

The treatment of the hair has a lot to do with the appeal of a little girl's head. Little pigtails will probably never go out of style. Bangs also seem to be ever popular and hair hanging loose or in curls is always in evidence. In color drawings or paintings, a bit of color in a hair ribbon is always effective.



PLATE 65. More little boys

As one progresses in the drawing of children, he becomes impressed with the distinctive character and personalities he finds. Children register as many feelings and emotions as adults, and much more freely and obviously. As we grow older we learn to hide our real emotions, sometimes too deeply. Most children are much more truly themselves than adults are



PLATE 66. More little girls

It is much easier to show a child's expression in a drawing if we eatch it first with a camera. Their changes of expression are lightning fast, and no child should be asked to hold an expression.





II. SCHOOL CHILDREN

II. SCHOOL CHILDREN

This section deals with children of the grammar-school age, or up to adolescence. That is the age of activity and rather gradual growth, before the spurt of growth that comes at the time of adolescence. It is also the age in which habit and character begin to be formed and to show in the face. We might also call it the age of mischief because the energy cannot be confined to growth and overflows into physical activity.

It is most important to learn to draw children of this age with a smile—not only on the face you are drawing, but on your own face. Almost one bundred per cent of children in advertising must appear as both active and happy. On the other hand, a youngster's face can be particularly beautiful in repose. Sometimes you will wish that the editors and art directors appreciated this more often. At least when a story is touching, the child may be drawn without a grin. But in advertising especially of foods, chadren have to be shown going into ecstasies over the product.

Children at this age live in a world of their own. Most of the time a little revolution seems to be going on inside them, against all the authority which is heaped upon them by parents and teachers and which they are not quite old enough to understand. Try to remember your own schooldays. When asked why you did this or that, you could harnly have answered. Because I'm getting fixed of so much authority. Sometimes adults find it hard to understand why

the effect of our authority il ps off so easily, and the answer can only be that there is so much of it.

While we consider this the age of learning, we are likely to forget that much learning is gained by experiment and not all by direction. All the wonders of invention are holding themselves out for inspection by the young If your boy takes your alarm clock apart, or strews your pet tools out by the back fence this comes under the head of experiment without direction, and you would have a doll boy if he didn't do a few of these things.

When drawing cluldren, or even when photographing them, firget that you are grown up. Try hard to meet them in their own world and draw them out. A cloud who is afraid of you or who shuls you out is not going to be himself and so will not be a good model, if you are interested in conveying the spirit of childhood. That spirit lies in their faces only when they are free of authority. Watch their faces change when authority descends on them. I am not speaking against authority itself. I just mean that it does not photograph well, and resentment or sulkness certainly does not make an attractive picture.

Since proportions have already been thoroughly discussed, you can seam from Plates 67 and 68 to apply them to the faces of school children. It is helpful to understand them but merely to get them right is not the ultimate objective.

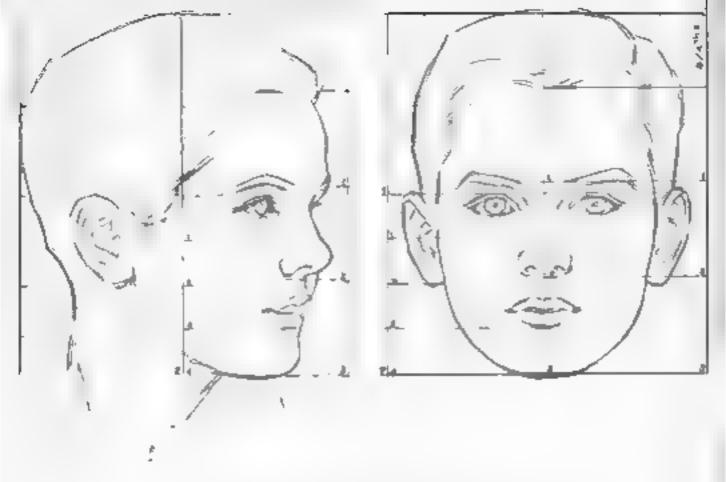


PLATE 67 Proportions of the schoolboy's head

Children between eight and twelve are more difficult to draw than either very young children or adult. The character of the head is pretty well established by this time, and some children have even taken on quite an adult look. But there is a trick to indicating this age group which is quite dependable. The eves have moved up to touch the haltway are and the space from the handine to the top of the head is three-fourths of a unit instead of one-half unit as it is in the adult. In the adult the halfway line cuts through the middle of the eves and out through the outer corners, while in the child approaching teen age the whole eve is below this line. The nose is still slightly above the second quarter division in the lower half of the face. The lower lip touches the line of the third quarter division.

In boys there is notable development in the ears. The mouth loses much of the baby look. The second teeth have replaced the baby teeth and the jaw has developed to accommodate them. The nostrils develop and the cartilages of the nose spread. The bone at the bridge of the nose develops a little more slowly so many boys retain a turned-up nose until they are well into their teens.

This is the age of freekies. It is also the age of mischief and carefree happiness, as the expressions show. The hair is initially the front feeth look large. While the front of the jaw develops, the rear of the jaw at the corner below the ear does not develop until later. A large square jaw does more than any other feature to give a look of maturity. If you want to keep the face young, keep the corners of the jaw rounded.

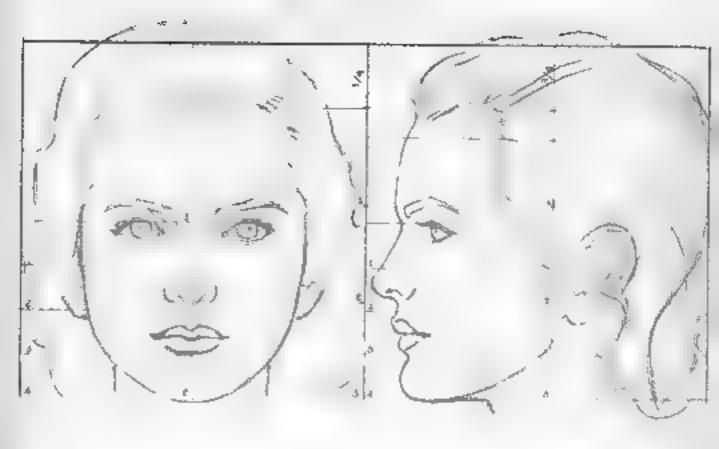


PLATE 68 Proportions of the schoolgirl a head

Young girls seem to makere faster than boys as far as factal character istics are concerned. Most gols acquire a fairly mature look quite early in their teens. As I mentioned earlier they usually have higher foreheads and the handing is well up. The cheeks are counder and there is often more space in the front view between the corners of the eyes and the edges of the face where the cars attach.

It must be remembered that here we are dealing with averages. There are aways variations and exceptions. Photographs of girls ten to twelve years old often look more mature than the children actually look. Sometimes this is because we are seeing only the head and shoulders, and not the head in association with the rest of the body. In a girl of thirteen or fourteen the head is almost full grown, while the body is not

Full lips are always appealing in the face of a young girl, and roundness rather than botuness. Girls as well as hows often have freckles at this age, but do not overdo the freckles in drawing girls.

To draw heads of children of this age group well, you will have to practice on a great many



PLATE 69. The four divisions—schoolboys

If you plan to do advertising illustration, or are already in that field, you will find drawing growing boys and girls very remunerative Practically all foods are advertised to mothers with growing children and the children appear in profusion in such advertising. You can practice from the heads here, or find others in the women's magazines that offer excellent practice.

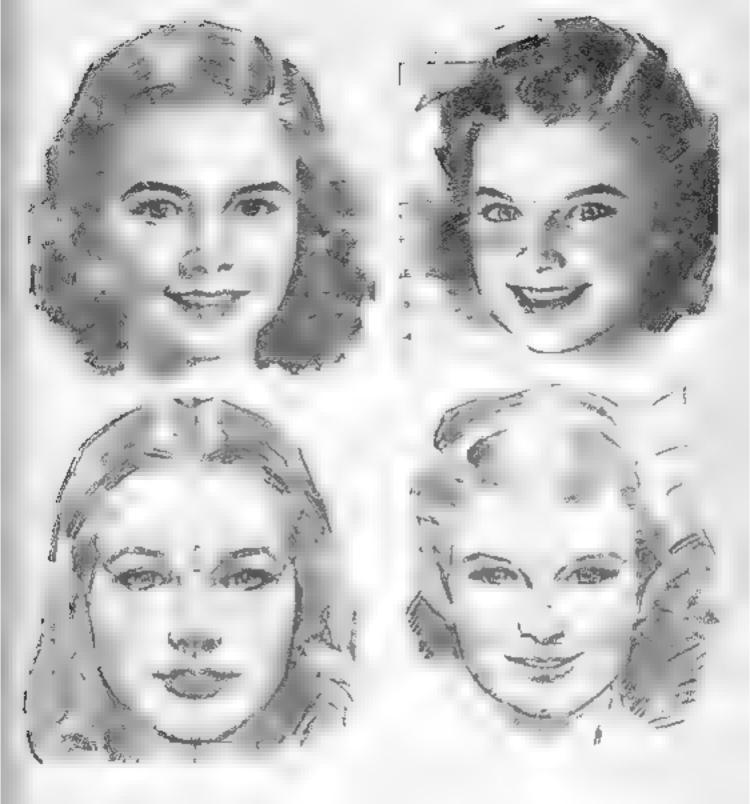


PLATE 70 The four divisions—schoolgirls

At the right, above, we have the usual quarter spacing. It is interesting and helpful to note how the diagonals cross in a young girl's head. The diagonals from the corners of the eves through a point at the middle of the base of the nose also cut through the corners of the mouth, those from the outer ends of the brows cut through the corners of the mouth to a point at the base of the middle of the chin.



PLATE 71. Sketches of schoolboys

These heads have been left in outline since the outlines will probably be more helpful than the finished heads. There is a wideness to young faces that is more felt than measured. In drawing young people it is particularly important to trust your feelings. Once in a while a face will look older or younger than you intended no matter what you do. In that case the best thing to do is to try another subject.



PLATE 72 Sketches of schoolgirls

Draw heads in outline until you are satisfied that the age and expression look right. There is no point in adding tone to a head that does not appeal to you. The tone can only build up the forms already established. If they are wrong, tone does little to help. Sometimes a head in outline may look better than one completely finished.





III. TEEN-AGERS

III. TEEN-AGERS

Teco-agers are popular subjects in fiction, advertish g and portraits. Since the proportions of the head are so nearly those of the adult head, we are aimost back to where we started, but I hope with much more understanding.

In drawing teen-age boys and girls we must take into consideration the great variety of ypes. In boys, bony faces with well-marked muscles are associated with athletic types. The muscular activities contribute to a certain leanness. Some boys grow so fast they are rubbed of some vitality, others simply do not lean toward athletics. Another type of teen-age boy has a round face, long legs and arms and large hands and feet tends to drape himself over anything tuitable to rest upon, and hates effort, especially home chores. As a rule, these boys develop more energy later when they attain full growth.

Since most teen-agers- girls as well as boys-

are lag eaters, if they do not exercise they have a tendency toward fatness. Fortunately, they lose most of this excess weight in the spirit of energy that follows full growth.

Treat teen-agers with as much understanding as possible. Remember that this is the uga of the first highwart throb, the age when the orge to be different from their elders comes out in every conceivable fad, in dress, buir-do, and personality. Study teen agers closely to catch the spirit, for youth as clusive in more ways than one.

Now that we are completing our study of heads you will find it rewarding to review parts of this book winch might have given you trouble earlier. The new drawings should show great suprovement over your first ones, you will find everything much easier, and will also have gained confidence from your practice work.

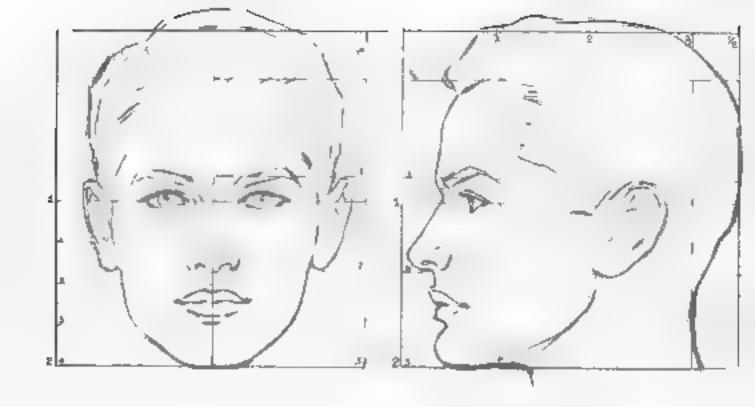


PLATE 73 Proportions of the teen-age boy's head

The proportions of the head in teen agers are almost identical with adults, the difference is largely a matter of leeding. In how the home structure has become quite evident, though it should not be stressed as much as in men's heads. There are no noticeable lines. The flesh is firm and itill inclined to smoothness. The checks are smooth without much definition of the mascles. The jaw has developed considerably in a short time. The bridge of the nose has taken permanent shape. As the jaw and craining have grown, the ears appear smaller in relation to the whole head than they do in a little boy. The cartilage of the ear is now well defined; the ears have lost much of their coundness and taken on more angular lines.

The hair has moved back somewhat from the temples. The brows have definitely thickened. The lips are fully developed in size. The chib has come forward in permanent shape.

The only bone not fully developed is the corner of the taw. This continues to develop research shows, until the age of twenty or more. I suspect the eranium itself does not reach its maximum growth until full muturity though further growth does not perceptibly affect the proportions of the head.

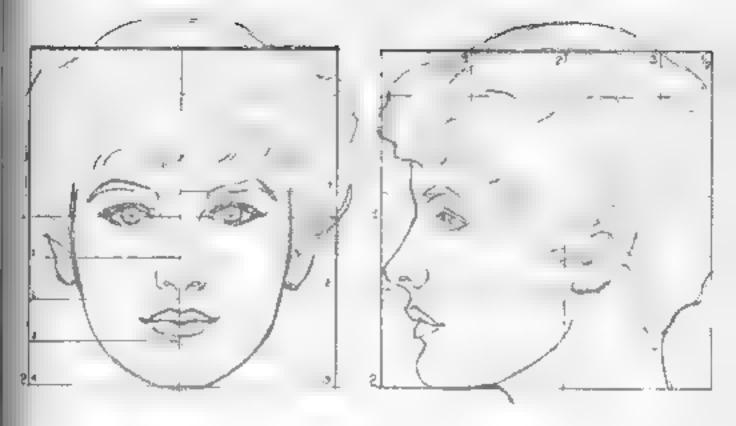


PLATE 74 Proportions of the teen-age girl's head

Sixteen is traditionally the perfect age for guls. By that time they have lost the gangliness of fast growth, and all is smooth, round, and fair. Now that girls also engage in athletics, their faces tend to show more muscle than did those of their mothers at the same age. But the predominating quality is youth, the faces are instined, full of fresoness and vigor

These things are important in portraving young people because the actual proportions of the face change very sittle from sixteen to sixty. The jaw in the girl may develop a little, but hardly enough to affect the drawing of the proportions much. That is why the artist must more or less feel the age he wishes to draw.

It is quite important to obtain good material to work from Faking a drawing of a beautiful young American gul is a very difficult thing to do, until you have drawn a great many heads, and know the basic construction inside and out. I do not believe any of the outstanding artists proceed without adequate material to work from Beauty remember, is largely a matter of perfect proportions and perfect placement of features. The commercial illustrator will need to draw many pretty girls

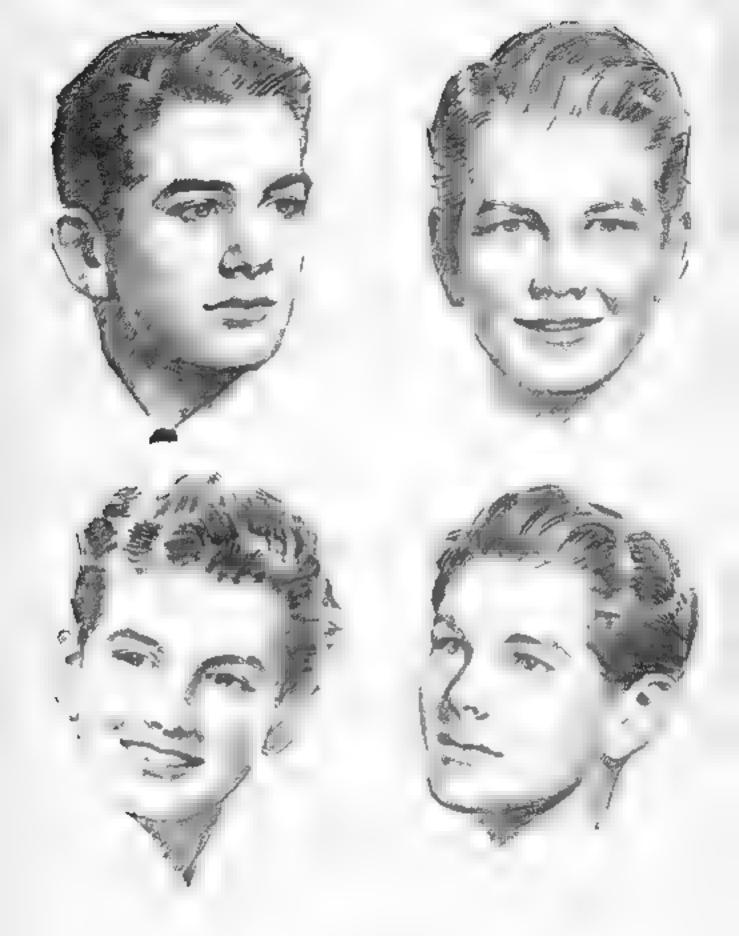


PLATE 75. Teen-age boys 128



PLATE 76. Teen-oge girls 129



Part Five: Hands

Part Five: Hands

Peritaps no aspect of drawing is accompanied by more confusion and provided with less adequate material for study than is the drawing of hands. Much of the trouble is caused by searching for material ustcard of using the material you have available because in your own two hands you have the best source of information uvailable. Perhaps you have never thought about them in that light. Drawing of hands must be largely relf-taught. All any instructor can do is point out the facts that lie right in your own hands.

The study of basids, uside from learning their anatomical construction consists mainly of breaking down the measurements of various parts into comparisons. Fir gers have a certain length in relation to the palor spaces between the joints of the fingers are in definite proportion to the whole finger. The palm is so wide in compar-son to the length. The distances between the knackles on the back of the fingers are longer than those between the creases on the andersides. The length of the longest finger from its tip to the third knackle in back is practically half the length of the back of the hand from fingertip to wrist. The thumb reaches nearly to the second joint of the first finger. The length of the hand is about equal to the length of the face from chin to hairline You can make these comparative measurements as well as anyone else.

The hand is the most phable and adjustable part of the whole anatomy at can be made to fit around or grasp almost any shape within reasonable size or weight. This phability is what causes differently for the artist because the whole hand can assume countless different positions. Yet the mechanical principle by which the hands work remains constant. The palm, as a hollow opens and closes, and the fingers fold inward toward the middle of the palm. The

nails are really a stiff backing for the tips of the fingers, as well as an extra edge for precise grasping You pick up a pin with the fingertips; you pick up a hammer with the palm and fingers. The back of the hand is more or less rigid to the backward pressure of the fingers, as used in pushing. For adjustment to almost unlimited purposes, the hand is the most wonderful mechanism we know In addition to its perfection as an instrument, it is perhaps more closely coordinated with the brain than any other part of the body is. Many of its movements are controlled by subconseious reflexes, examples are typing and playing the page.

Man started to educate his hands long before he educated his brain in the cultural sense. The infant can use his hands effectively long before he can think He will grasp a lighted match before he has learned that it will burn. The story of man's progress from prehistoric times must be closely associated with the adaptability of the human hand.

The fact that the hands and their movements require so little conscious thought may be one reason why so little thought a given to drawing them. Look now at your own hands, you will see them in a new light. Note how the hand automatically assumes a shape compatible with an object before grasping the object. To draw a hand in the act of picking up an object you must first study the contour of the object, then observe the automatic adjustment of the hand to fit that contour Start to pick up a ball, a peach, or an apple and watch your fingers adjust themselves, just ahead of the grasp. The mechanical principle involved is very important in the drawing of the hand. Only by knowing how it actually works can the hand be drawn convincingly

The back of the hand can usually be drawn an three planes one for the thumb section as

DRAWING THE HEAD AND HANDS

Far as the bottom knuckle of the first finger, and the other two across the back of the hand, taper ng to the wrist. In most actions the ones of the and is curved and the curve is reduced to these three planes. The palm is usually the three oncks surrounding the honow of the palm-the heal of the hand, the thick base of the thumb, and the padged portion just under the fingers. The knuckers of the fingers and thumb must be aligned to work mware toward the hollow of the palm, or when outstretched to be at right angles to the direction of the column of the finger. We must also be careful to align the nails so that they are on top of the column with the middle line of the neal extended from the mildie line of the column of the finger. Otherwise the nail may slip around the finger without our realizing what is wrong.

Keep studying your own hands to learn about bands in general. The inner musclet are so deeply embedded that they are not as important as the outer shapes. The only indication of bone we see is across the back, the knackles, and the wrists. If you get the shape of the palm in almost any action, the fingers can made easily be attached to it and aligned with it. Study the comparative lengths of the fingers, remember

that the thumb works mostly at a right angle to the fingers. Get rid of the mea that hands are hard to draw. They are simply confusing to draw colless you know how they operate. Once understood, hands become fascinating

The most important fact to remember about the hand is that it is hollow on the paint side and convex on top. The pags are so arranged around the palm that ever liquid can be held in the hand. The hand served promitive man as a cup, and by cupping the two hands together he could eat food which he could not hold with his fingers alone. The ting muscul of the thill bli is by far the most important one in the hand. That muscle combined with or a opposition to the pull of the fi gers gave man a grasp powerful enough to holo ever his own weight in suspension, this powerful muscle held his club his bow his spear. Anomals depend apon the jaw muscles for existence, but we might say that man depended upon his hands

When you have mastered the construction and proportions of the hand cPlates 77 to 85 you will find it easy to use your knowledge to show the special characteristics of which is hands and those of balnes, children and older people.



PLATE 77. Anotomy of the hand

Note the strong tendon which attaches to the heel of the hand, and how on the back of the hand, the tendons are grouped to pull the fingers out. The operation of these tendons is marvetous, for they can operate all the fingers together from insule or outside the palm, yet can control each finger separately. The muscles which pull these tendons are located in the forearm. Fortunately for the artist most of the tendons of the paim are buried deeply and do not show. In babies and young people, the tendons on the back of the hand are hidden, but they are much in evidence in the hands of adults and the aged.

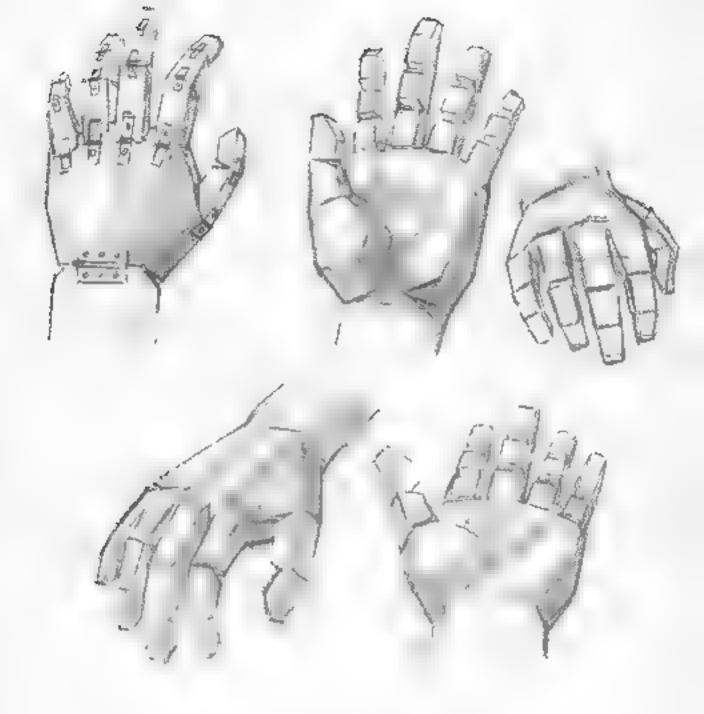


PLATE 78. Block forms of the hand

The bones and tendons across the back of the hand are close to the surface those around the palm and made of the fingers are thoroughly pudded I have blocked out these pads so you can familiarize vourself with them. Note the extra thickness of the pads of the thimb muscle and the heel of the palm. At the base of each finger there is a pad. These combine to make a pad across the top of the palm. The pads of the fingers protect the bones inside. Since these pads are all phable, they provide an even firmer grip on objects much as the pliable treads on an automobile tire grip the surface of a road. There are no pads on the top of the hand, though the pad at the outer edge on the little finger side can take a tre-mendous blow especially with the first closed, without injury to the hand.

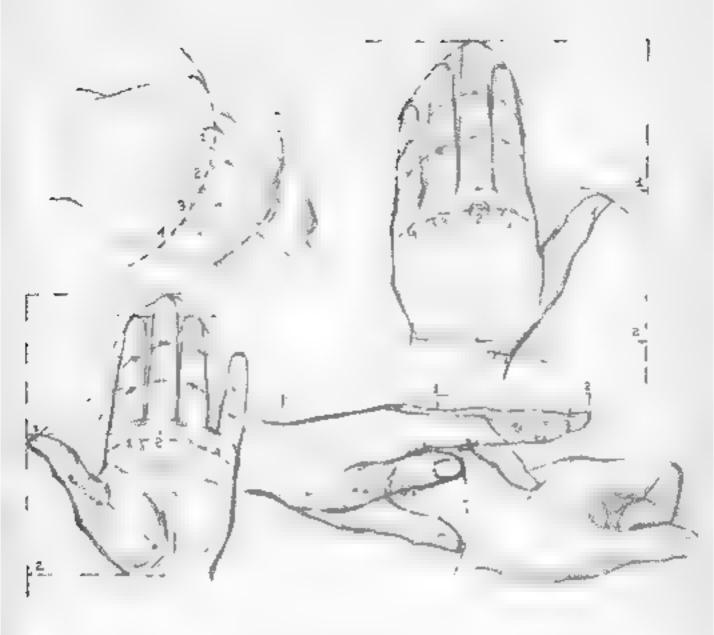


PLATE 79 Proportions of the hand

The next thing of importance is the curved arrangement of the fingertips and knuckles. Two fingers he on each side of a line drawn through the middle of the palm. The tendon of the middle finger just about divides the back of the hand in half. Important also is the fact that the thumb is turned at right angles to the other fingers. The thumb operates mostly in and out from the palm, while the fingers open and close toward the palm. The knuckles of the fingers are slightly above their creases on the inside of the fingers. Note the flat curve of the knuckles across the back of the hand, with the curves getting deeper as they cross the knuckles toward the fingertips.

The middle finger is the key finger from which we determine the length of the hand. The length of this finger to its knockle in back is slightly over half the length of the hand. The width of the palm is slightly more than that of half the hand on the inside. The first or index finger just about reaches the fingernail of the middle finger. The third finger is about equal to the index finger in length. The little finger just reaches the top knockle of the third finger.



PLATE 80. Construction of the hand 138

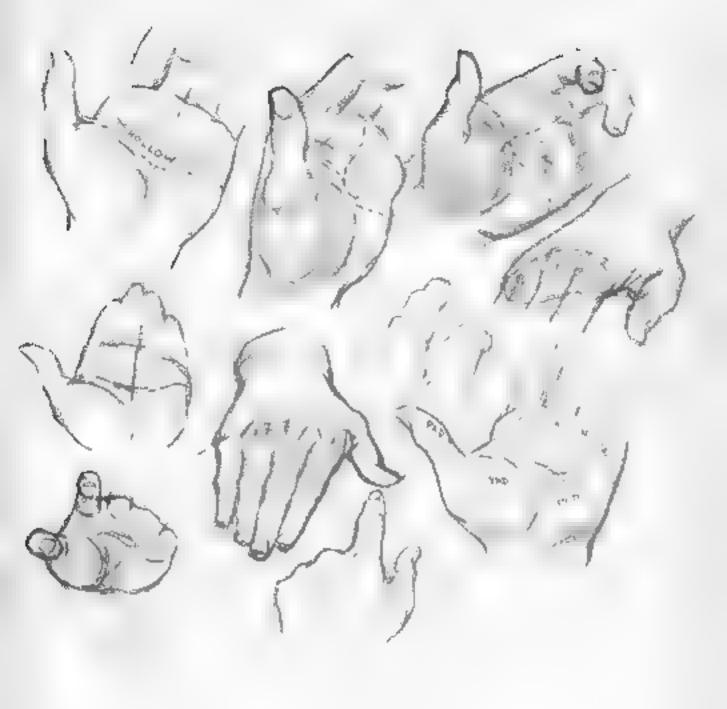


PLATE 81. The hollow of the polm

In the drawings above, note how the hollow of the hand has been care fully defined. Also note the resulting curve of the back of the hand Hands never look natural or capable of grasping until the artist understands this feature of the hand. All these hands look as if they could take hold of an object. The loud sound of clapping comes from the sudden compression of air between these two cups or pockets of the palms. A hand that does not look capable of clasping is badly drawn. Study your own hands



PLATE 82 Foreshortening in drawing hands 140

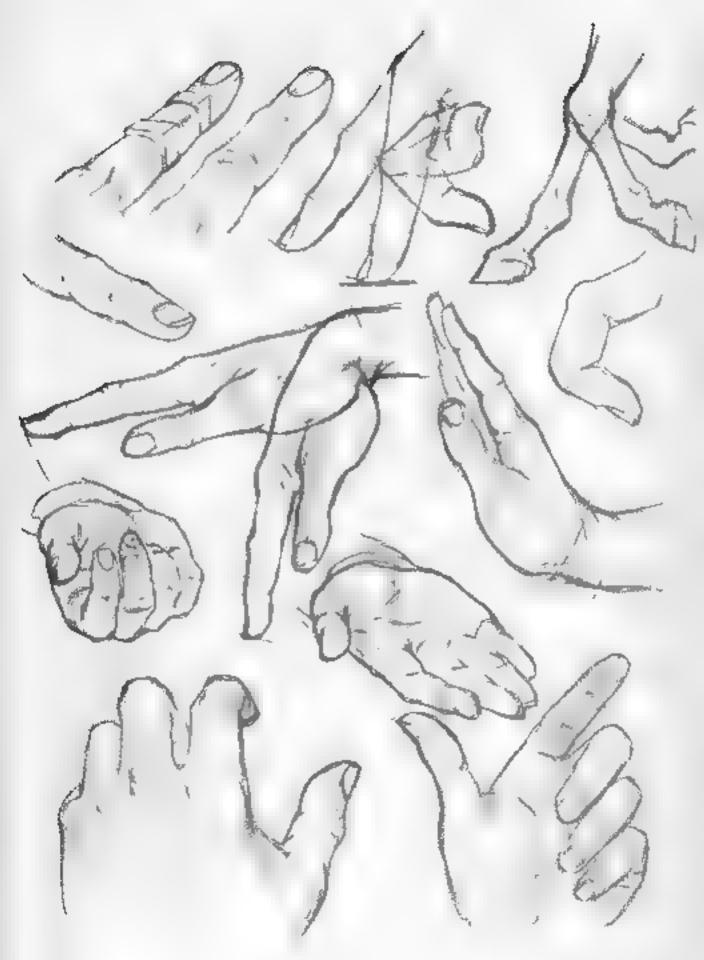


PLATE 83 The hand in action 141

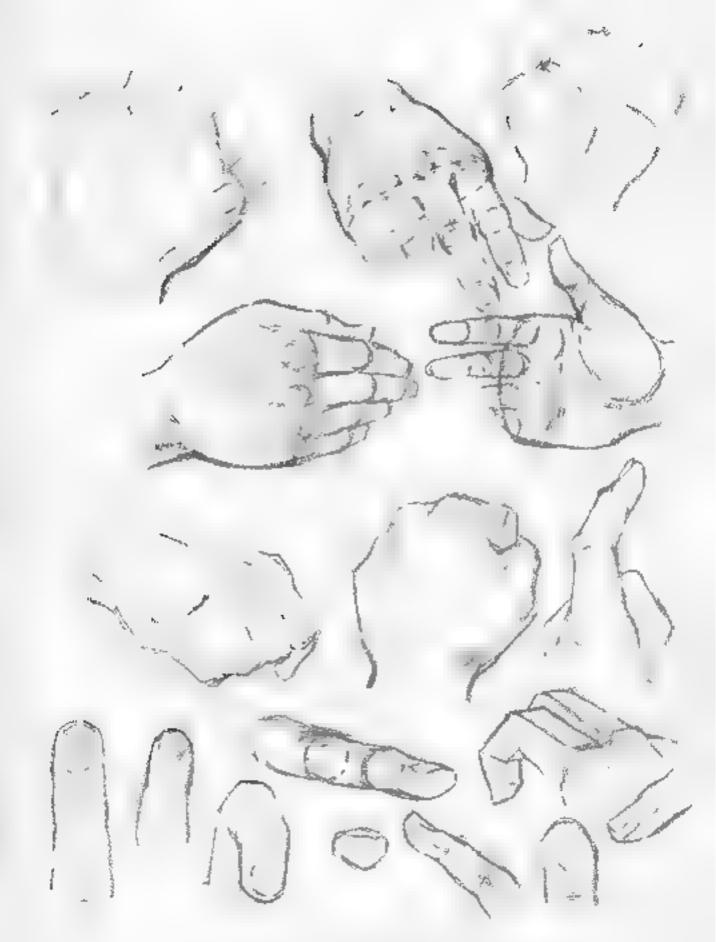


PLATE 84 Knuckles 142



PLATE B5 Drawing your own hand 143



PLATE 86. The female hand

Women's hands, like their faces, differ from those of men chiefly in having smaller bones, more delicate muscles, and generally more roundness of planes. If the middle finger is made at least half the length of the hand on the palm side it will be more graceful and will characterize the hand as feminine. Even though feminine bands are slim, they still have amazing tenacity of grip. The long angernails, oval in shape, add charm.

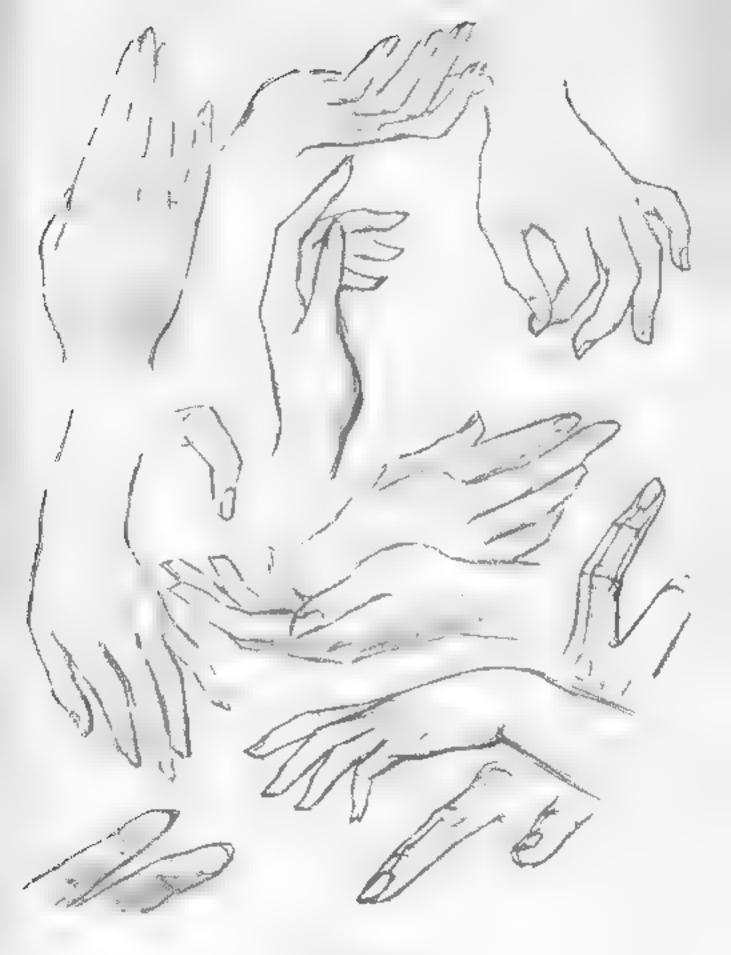


PLATE 87. Topered fingers 145



PLATE 88 Make many studies of hands

There is only one sure way to learn to draw hands, and that is to draw many many studies. With hands, more than with anything else proper spacing is essential. You must fit the fingers onto the palm in the particular view you see before you. Hands are almost never straight and flat Judge the spaces between the knuckles carefully. Much of the time the view will require foreshoctening, as shown in Plates 82 through 85.

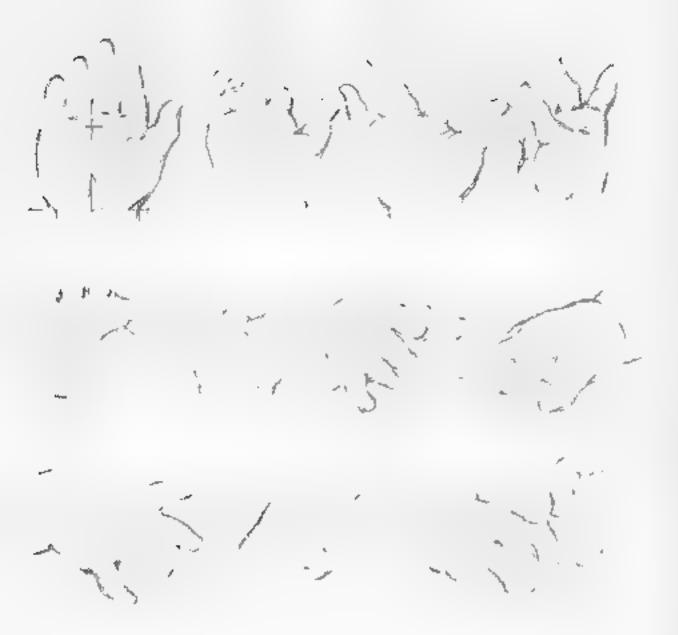


PLATE 89. The boby hand

Babies hands are a study in themselves. The basic difference from adults bands is that the pain is relatively thicker in relation to the small fingers. The thumb muscle and heel of the baby hand are proportionately very powerful. Quite young babies have a grasp equal to their own weight. The knuckles across the back of the hand are burned in flesh and are indicated by dimples. The base of the hand may be entirely surrounded with creases. The heel of the hand is much thicker than the pads across the top of the palm.



PLATE 90. Studies of boby hands 148

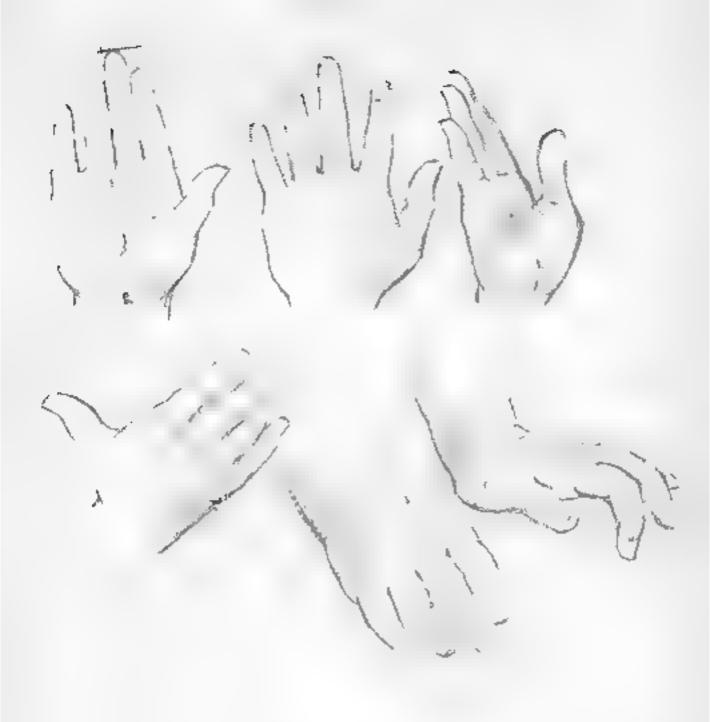


PLATE 91 Children's hands

The child's hand is halfway between that of the baby and that of the teen-ager. This means that the thumb muscle and the heel of the hand are thicker proportionately than they are in the adult hand, but not as thick in relation to the fingers as they are in the haby hand. The fingers in relation to the palm are about the same as in the adult. The whole hand is smaller a little fatter, and more dimpted, and the knuckles are of course smoother.

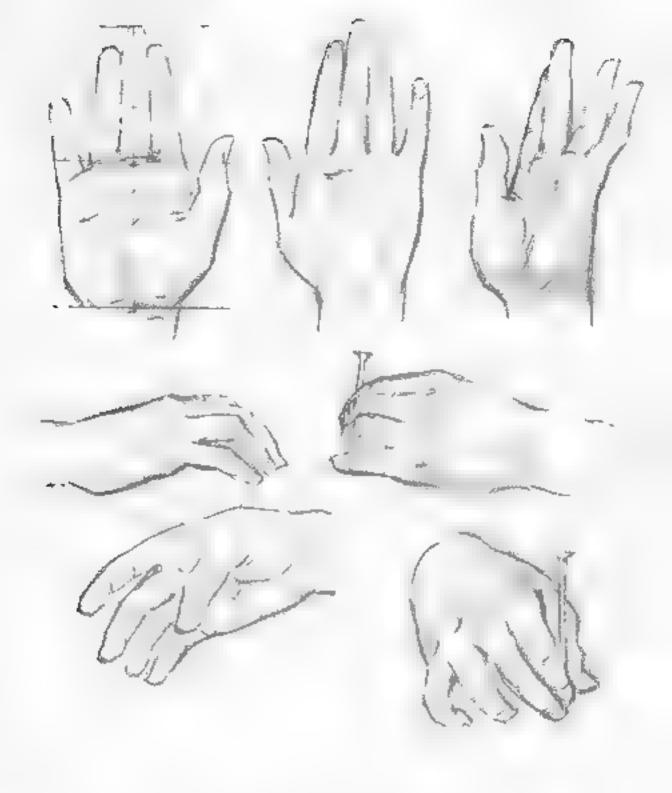


PLATE 92 The proportions remain fairly constant

At grammar school age there is very little difference between the hand of a box and that of a girl but at adolescence there is a big change. The boy's hand is much larger and sturdier showing development of bone and muscle. The girl's hand never develops the big knuckles of the boy's, since the bones stay smaller. The heel of the hand develops in the boy, but stays much softer and slammer in the girl. In the boy's hand the fingernails as well as the fingers are slightly broader.



PLATE 93. The hand ages

Once you have mastered the construction of hands, old people's hands are a delight to draw. Actually they are easier than young people's, since the anatomy and construction are more obvious and show clearly on the surface. While the basic construction is the same, the fingers get thicker, the joints larger, and the knuckles protrude. The skin becomes wrinkled, but this need not be emphasized except in a close-up view.

A Farewell to the Reader

In concluding this book, I want to thank the readers of my previous books for their very kind letters. Because of the large number of these, and because of the pressure on my own time, I have never been able to answer as many as I wished to. If my books have helped you, I am happy.

It is only within the past decade that so many books on drawing and painting have been available. Perhaps another seems superfluous, but in investigating before starting this one, I found very few which concentrated on heads or hands. Both are so important to commercial and portrait artists that I have undertaken to fall the gap. It is my conviction that such a book should come from a person whose livelihood has depended upon the very material be is writing about. In this capacity I have felt that I could substitute actual practice for theory, because my own work based on the principles given here has proved itself by actual sales to leading publications over a long period of time.

There are many fine men in the field of commercial art, and many fine teachers in the schools, who would be capable of handling the same subject. It is largely a matter of finding the time and energy for such an effort in an already full schedule. I have found, however, that time can be apportioned for almost any endeavor that is interesting and pleasant to undertake, simply by curtailing competing pleasures. Much of this book has been done in the evenings or at times between the pressure of other work. My hope is that if I could find time to do the book, others could also in the same way set aside time to study it. My end of the effort is completed, but I am still concerned that it will go out and do the job for young people that I want it to do.

The men in the field who are now the greatest contributors are men who had to come up the hard way, without much knowledge available in books, grasping here and there for information together with much personal practice and experiment. Books will not do the work for anyone, but they can make individual effort more practical and profitable, speeding the acquiring of much-needed knowledge, so that the artist can have more years of successful practice.

It is not my intention to have my readers stop their study of the head and hands with the closing of this book. My aim has been to help them to a well-grounded start that will give their own ability the best of chances. We know that a head cannot be well drawn by any approach that does not, in the final effort, produce solidity and good construction. The portrayal of character must come from specific analysis and from understanding the general anatomy of the head. If I have shown you how that analysis can be made and the reasons for the things that happen in drawing a head, your own progress will be greatly accelerated.

Aside from technical knowledge, I feel that the artist must have a certain reverence for the beauty of the construction of the head, the qualities of its forms that give it individuality, plus a desire for beauty of craftsmanship in the rendering. He should strive never to let his technique become a routine formula, by which all heads are done in the same manner, Let him experiment constantly with the expression of his basic knowledge. Some heads can be done best by suggestion, others by complete detail and fidelity to life. Some will be more interesting if rendered in line, others by tonal suggestion. The result should never look as if it came off an assembly line. To vary your technical style is not easy; neither is keeping your thinking varied. A great deal of practice and experiment is required.

A very fine idea is for a group of young artists

DRAWING THE HEAD AND HANDS

to organize a sketch class, meeting once a week, sharing the cost of a model and other expenses. Such a class offers each man the possibility of learning from the others, and it also establishes friendships which last a lifetime. We did this in my early days in Chicago. Many of the men in that group have forged ahead in their fields, and some are doing the outstanding work of the country. While each must be credited with a great deal of individual effort, there is no doubt that all gained from the collective experience. Of course, any person intending to make a living at art should attend a good art school if possible. But training need not stop there. In the group

I mention, all the fellows had finished their academic work and already were active in the field, but they were all interested in learning more and so organized this informal clinic.

I have enjoyed the preparation of this volume, even if it turned into a mountain of work. I wish every reader the best of luck, and I hope that each will find something in these pages that will be of lasting value. For those to whom drawing is a holsby rather than a profession, I hope the simplification of their problems will bring them still greater happiness in their chosen pastime.

